

- ::: N&O #32 December 2000 ::: -

MERRY XMAS EVERYBODY AND A GREAT 2001!

* RUSSIAN HF BEACONS [MX] *

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::: What are they and how are they called?
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- SLHFB (Single Letter High Frequency Beacons)
- SLHFM (Single Letter High Frequency Markers)
- Channel markers
- Cluster beacons
- FSK markers
- SLB (Single Letter Beacons)
- MX (the code that the ENIGMA group uses for these stations)

- MXb: single letter propagation beacons, operating in clusters

[C,S,F,...]

- MXm: single letter channel markers [R,P,L,V,...]
- MXr: other related markers [Buzzer, Pip, Squeaky Wheel,...]

Well, that takes care of the code, but what should we call these stations? In my opinion, we are talking about two different types of stations here. The so called 'cluster beacons' are most probably propagation/navigation beacons. The solitary letter stations and the related pip/buzzer like stations, are definitely channel markers for Russian military stations, like Navy Kaliningrad (P).

::: Dots and dashes in..... Cyrillic

A few words about the call signs. Actually we are reporting the wrong call signs as our Russian friends can confirm. As you can see on the Russian CW chart (<http://home.luna.nl/~ary/ruscw.jpg>), we should report the Cyrillic equivalents of the letters that we normally report. But as most of us cannot write or read Cyrillic, or our word processor cannot handle the characters, I suggest to keep it simple and not to change the characters that we hear. In reality though, it is wrong to say that the stations transmit the letters C, S, P, etc, and Cyrillic characters like ...-- and .-.- because all we hear is in fact Cyrillic, including C, S, and P.

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::: Known locations of channel markers and cluster beacons.

B	- Arkhangelsk
C	- Moscow
D	- Odessa
F	- possibly Gdynia (not to be confused with the Vladivostok beacon)
F	- Vladivostok
K	- Peteropavlovsk Kamchatskiy
L	- St. Petersburg
M	- Magadan
O	- Moscow
P	- Kaliningrad
R	- Izhevsk
S	- Arkhangelsk
V	- Khiva
W	- Cuba (a new European based 'W' popped up recently)
X	- Prague
Yu	- Kizyl Orda
Z	- Mulachevo
PIP	- Rostov-Volgograd area
BUZZER	- Moscow area

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::: Cluster beacons

The so called 'cluster beacons' are most probably propagation and/or navigation beacons. I have never heard anything else but the beacons, nor did I ever see a log of a message being sent by these stations.

Since the 60's, many suggestions were made about the purpose of these stations. Some say that they are beacons for vessels on the Russian inland waterways. Others are convinced that the stations are being used for satellite tracking. Propagation beacons for the navy is another one. A nice one appeared in Popular Communications back in July 1994:

'The explanation given was that a DF net control would transmit an idle marker on several frequencies to keep the channels open. When an intercept site would tip-off the control station regarding a target, the callsign, frequency and other pertinent details were sent to the DF net stations. Bearings were taken by those stations and the results sent back to control where they were placed on a plot board.'

Over the years the clusters have moved up and down the SW spectrum. The current clusters are grouped around the following frequencies: 5154, 7039, 8495, 10872, 13258, 16332, 20048. The stations in these clusters are: C,F,K,P,S.

Notes:

- P recently disappeared from the clusters. This has happened before, so it is quite possible that it will return one of these days.
- F is normally one of the cluster beacons that can be heard in the Far East. Same story as P. It will probably be back.
- K is also a cluster beacon but was only heard on 2 freqs during the past few months.

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::: Channel markers

A couple of years ago I had the chance to speak to a Russian naval radio operator who works on a Russian frigate. He confirmed to me that the channel markers are military stations, mostly used by the navy. His English was poor so I could not ask for more detailed info, and as I don't speak Russian, you can imagine that it was a really nice conversation. I had to write down the morse characters of the call signs of the stations and he told me the locations. It was really

fun, believe me :-) A couple of the markers that he mentioned have now disappeared but still exist as cluster beacons. The radio operator identified 'L' as St.Petersburg, 'P' as Kaliningrad (HQ of the Baltic Fleet), 'S' as Arkhangelsk and 'C' as Moscow (naval HQ). He knew that there were more stations but didn't know which ones because they were not relevant for his vessel.

At the moment there are a number of channel markers active, or were active during the past months: A, D, E, EO (or J), F, H, I, K, L, OB, P, R, T, V, W, Y.

Ever since the 1960's traffic has been noticed on the marker frequencies. Callsigns as RUT, UMS, RMP and ROD were used. One of the most active stations was navy Kaliningrad (P) with callsign RMP. A typical RMP transmission started with 'P' marker being transmitted, followed by either morse or RTTY traffic to REO, RMA91, RJD69, REE5, RLA88, or naval vessels like UHE1 and RWRI, to name just a few. The messages consisted of weather reports for the Baltic or other northern areas, or off-line encrypted messages. After the messages were sent, 'P' appeared again. Sometimes for hours, or just for a couple of minutes. Kaliningrad is still active, but the channelmarker 'P' isn't used as often as it was in the past. RMP now often begins its transmissions without the marker.

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::: Related stations

When I think of stations that are closely related to the channel markers, five of them immediately come to mind: 'U', the 'Pip', the 'Squeaky wheel', the 'Yelper', and the 'Buzzer'. Although mentioned above as single letter channel marker, 'R' fits better in the 'related' section. The known channel markers are all naval stations, while 'R' is most likely an army station.

- Jammer station 'U'. Used to be active on many frequencies. The 'U' beacon was transmitted on FSK and the traffic on the 'U' frequencies was RTTY.

In his excellent book 'Jamming', Rimantas Pleikys writes:

'The data from the archive was found by long-time Ministry employee, Mr. A. Stelingis, who at one time was responsible for the operation of jamming objects. During one conversation a secret came to light about a long time mystery regarding the Soviet 'U' channel marker. I was able to monitor the work of this marker at 16 frequencies.

The 'U' marker disappeared from the airwaves in the spring of

1990. I have recorded an occasion when the 'U' marker ran on 13 frequencies simultaneously! My colleague, A. Stelingis, confirmed that these channels were continuously monitored at the jamming correction and control posts. The 'U' channels were used to transmit orders to the jammers -most likely to issue jamming frequency times and schedules. It must have been that 'U' channels were used as backup instead of the teletype link to Moscow. (It is also believable that the 'U' marker was on the shortwave bands was used also for civil defense and other purposes). It is worthwhile to note that when the USSR ceased its jamming on 30-11-1988, the 'U' marker transmitters continued to operate for almost another 18 months! This would indicate that throughout most of the USSR jamming systems continued to be kept ready to start again.'

Note: Rimantas Pleikys' book JAMMING is still available. For order info, please check www.is.lt/ratekona/2/knygos/jamminge.htm

Rimantas also supplied an overview of the three known standard voice message formats of the Russian military HF channel marker stations 'the Pip', 'the Buzzer', and 'R'. All transmissions are live, non-computerized, mostly male voices, repeated twice, in the Russian language.

The purpose of the control messages is to check a readiness of the operators at the receiving (network) stations. The received message content, or a special reply message, must be repeated back on the return link. This can be a MW or SW link, a telephone line or a satellite link. In the cases of the Pip and 'R', the final message phrase 'v priyom' ('over') means that the station is waiting for the quick answer.

- The Pip, 3756//5448 kHz, USB+reduced carrier mode, Rostov-Volgograd area (possibly also transmitting from a site closer to the west) at different times. The channel marker consist of a pip. Sometimes control messages are transmitted.

In Russian	English translation
-----	-----
Dlya 854 032 471 331 629 008	For 854 032 471 331 629 008
Kak slyshno? V priyom.	How do you read? Over.

- 'R', Izhevsk, military. There are two different marker types; a CW type and an UC type (USB+carrier mode). Frequencies: see freq list.

Voice transmissions are usually on the hour, regular schedules.

In Russian	English translation
-----	-----
Rotor-35, ya - Plavets-41.	Rotor-35, I am Plavets-41.
Reskript: 22 80 39 90	Reskript: 22 80 39 90
Moskovskoye vremya 0 chasov,	Moscow time 0 hours, 2 minutes.
2 minuty. V priyom.	Over.

- The Buzzer, 4625 kHz, Moscow area, AM mode. Voice transmissions are extremely rare. The channel marker consists of a continuously repeated on-off buzzing tone except during minute :59 of each hour, when an alternating high-low tone is repeated. Note that the marker consisted of a pip in the 1980's.

In Russian	English translation
-----	-----
Ya UZB76. Ya UZB76.	I am UZB76
180 08	
BROMAL	
74 27 99 14	
Boris, Roman, Olga, Mikhail, Anna, Leonid	
7 4 2 7 9 9 1 4	
(repeated)	

- The Squeaky Wheel, 3814 and 5461.5 kHz. No messages noted so far.
- The Yelper, 3650 kHz. No messages noted so far.

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::: Callsign and frequency lists

CLUSTER BEACONS

All currently active or active during the past six months.

frequency	c/s	location	ITU	branch
-----	---	-----	---	-----
4557.8	P	Kaliningrad	RUS	navy - Baltic Fleet
4558.0	C	Moscow	RUS	navy
5153.8	P	Kaliningrad	RUS	navy - Baltic Fleet
5153.9	S	Arkhangelsk	RUS	navy
5154.0	C	Moscow	RUS	navy
5154.0	K	Petropavlovsk Kamchatskiy	RUS	navy

5154.2	F	Vladivostok	RUS	navy - Pacific Fleet
7038.8	P	Kaliningrad	RUS	navy - Baltic Fleet
7038.9	S	Arkhangelsk	RUS	navy
7039.0	C	Moscow	RUS	navy
7039.0	K	Petropavlovsk Kamchatskiy	RUS	navy
7039.2	F	Vladivostok	RUS	navy - Pacific Fleet
8494.8	P	Kaliningrad	RUS	navy - Baltic Fleet
8494.9	S	Arkhangelsk	RUS	navy
8495.0	C	Moscow	RUS	navy
8495.0	K	Petropavlovsk Kamchatskiy	RUS	navy
8495.2	F	Vladivostok	RUS	navy - Pacific Fleet
10871.8	P	Kaliningrad	RUS	navy - Baltic Fleet
10871.9	S	Arkhangelsk	RUS	navy
10872.0	C	Moscow	RUS	navy
10872.0	K	Petropavlovsk Kamchatskiy	RUS	navy
10872.2	F	Vladivostok	RUS	navy - Pacific Fleet
13257.8	P	Kaliningrad	RUS	navy - Baltic Fleet
13257.9	S	Arkhangelsk	RUS	navy
13528.0	C	Moscow	RUS	navy
13528.0	K	Petropavlovsk Kamchatskiy	RUS	navy
13528.2	F	Vladivostok	RUS	navy - Pacific Fleet
16331.8	P	Kaliningrad	RUS	navy - Baltic Fleet
16331.9	S	Arkhangelsk	RUS	navy
16332.0	C	Moscow	RUS	navy
16332.0	K	Petropavlovsk Kamchatskiy	RUS	navy
16332.2	F	Vladivostok	RUS	navy - Pacific Fleet
17015.9	S	Arkhangelsk	RUS	navy
17016.0	C	Moscow	RUS	navy
17017.2	F	Vladivostok	RUS	navy - Pacific Fleet
20047.5	P	Kaliningrad	RUS	navy - Baltic Fleet
20047.9	S	Arkhangelsk	RUS	navy
20048.0	C	Moscow	RUS	navy
20048.0	K	Petropavlovsk Kamchatskiy	RUS	navy
20048.2	F	Vladivostok	RUS	navy - Pacific Fleet

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CHANNEL MARKERS

All currently active or active during the past six months.

frequency	c/s	location	ITU	branch
-----	---	-----	---	-----
3043.0	OB	unid location	RUS	
3070.5	X	unid location; not Prague		
3088.0	L	St. Petersburg	RUS	navy
3090.0	L	St. Petersburg	RUS	navy
3092.0	L	St. Petersburg	RUS	navy
3167.0	P	Kaliningrad	RUS	navy - Baltic Fleet
3175.0	V	Khiva	UZB	navy
3194.4	A	unid location	RUS	
3195.0	R	Izhevsk	RUS	army ?
3208.0	P	Kaliningrad	RUS	navy - Baltic Fleet
3262.0	P	Kaliningrad	RUS	navy - Baltic Fleet
3264.0	P	Kaliningrad	RUS	navy - Baltic Fleet
3290.0	P	Kaliningrad	RUS	navy - Baltic Fleet
3322.0	R	Izhevsk	RUS	army ?
3335.0	L	St. Petersburg	RUS	navy
3415.0	A	unid location	RUS	
3415.0	OB	unid location	RUS	
3564.0	C	Moscow	RUS	navy
3649.0	P	Kaliningrad	RUS	navy - Baltic Fleet
3658.0	V	Khiva	UZB	navy
3699.5	P	Kaliningrad	RUS	navy - Baltic Fleet
3807.0	P	Kaliningrad	RUS	navy - Baltic Fleet
3814.8	I	unid location		
3837.0	P	Kaliningrad	RUS	navy - Baltic Fleet
4031.0	P	Kaliningrad	RUS	navy - Baltic Fleet
4043.0	P	Kaliningrad	RUS	navy - Baltic Fleet
4051.0	P	Kaliningrad	RUS	navy - Baltic Fleet
4301.0	S	Arkhangelsk	RUS	navy
4302.0	C	Moscow	RUS	navy
4325.0	R	Izhevsk	RUS	army ?
4446.0	V	Khiva	UZB	navy
4476.0	P	Kaliningrad	RUS	navy - Baltic Fleet
4498.5	V	Khiva	UZB	navy
4555.8	F	Gdynia (?)	POL	a)
4558.0	R	Izhevsk	RUS	army ?
4575.0	V	Khiva	UZB	navy
4605.0	P	Kaliningrad	RUS	navy - Baltic Fleet
4646.0	V	Khiva	UZB	navy
4828.0	P	Kaliningrad	RUS	navy - Baltic Fleet
4848.0	P	Kaliningrad	RUS	navy - Baltic Fleet
4878.0	V	Khiva	UZB	navy
4899.0	P	Kaliningrad	RUS	navy - Baltic Fleet
5111.0	P	Kaliningrad	RUS	navy - Baltic Fleet
5154.0	E	unid location		
5154.0	R	Izhevsk	RUS	army ?
5154.9	S	Arkhangelsk	RUS	navy

5306.0	C	Moscow	RUS	navy
5308.5	L	St. Petersburg	RUS	navy
5465.0	R	Izhevsk	RUS	army ?
5862.0	P	Kaliningrad	RUS	navy - Baltic Fleet
5920.0	K	Petropavlovsk Kamchatskiy	RUS	navy
5982.0	P	Kaliningrad	RUS	navy - Baltic Fleet
6203.0	P	Kaliningrad	RUS	navy - Baltic Fleet
6390.0	R	Izhevsk	RUS	army ?
6550.0	D	Odessa	UKR	navy - Black Sea Fleet
6934.0	T	unid location		
7002.0	V	Khiva	UZB	navy
7064.4	H	unid location		
7452.0	R	Izhevsk	RUS	army ?
7550.0	R	Izhevsk	RUS	army ?
8190.0	L	St. Petersburg	RUS	navy
8492.0	P	Kaliningrad	RUS	navy - Baltic Fleet
9111.0	W	unid location	b)	
10308.0	C	Moscow	RUS	navy
10612.0	C	Moscow	RUS	navy
13527.0	Y	unid location		
13539.0	V	Khiva	UZB	navy
13636.0	C	Moscow	RUS	navy
20126.5	E0	unid location	c)	
20126.5	J	unid location	c)	
20127.0	F	Vladivostok	RUS	navy - Pacific Fleet
25250.0	R	Izhevsk	RUS	army ?
26170.0	L	St. Petersburg	RUS	navy

- a) Operates only during daytime. Irregular.
b) Probably not related to the old 'W' stations from Cuba.
c) Unclear whether it sends E0 or J. Both have been logged by a number of people.

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RELATED MARKERS

All currently active or active during the past six months.

frequency	signal / nick name	ITU	branch
-----	-----	---	-----
3650.0	'Yelper'	RUS	army ?
3756.0	'Pip', Rostov-Volgograd area	RUS	army ?
3815.0	'Squeaky wheel'	RUS	army ?
4625.0	'Buzzer', Moscow area	RUS	army ?
5448.0	'Pip', Rostov-Volgograd area	RUS	army ?
5461.5	'Squeaky wheel'	RUS	army ?

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HISTORIC _NOW DEFUNCT_ STATIONS

frequency	callsign	location	ITU	branch
-----	-----	-----	---	-----
	Ch (---.)	unid location		
	Yu (..--)	Kizyl Orda	RUS	
3533.0	W	Cuba	CUB	navy
5308.0	O	Moscow	RUS	
5309.5	Z	Mukachevo	UKR	
5922.0	X	Prague	CZE	
6802.5	J	unid location		
6803.5	G	unid location		
7383.0	N	unid location		
7395.0	U	Kholmsk and other loc.	RUS	jammer related
8682.0	M	Magadan	RUS	
8698.0	B	Arkhangelsk	RUS	navy
9001.6	Y	unid location		
9160.0	Ya (.-.-)	unid location		
9322.0	X	Prague	CZE	
12149.5	I	unid location		

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Sources:

WUN newsletters, Spooks reflector, ENIGMA, SPEEDX, Monitoring Times, Popular Communications. A special thanks to the people who wish to remain anonymous and a very big 'THANK YOU' to Takashi Yamaguchi, Albert W. Hussein, and Rimantas Pleikys.

-0-0-0-0-0-0-0-0-0-0-

* VOICE STATIONS *

::: E23

E23 has changed its schedule. It now starts on the first Monday of the month, and is AM mode only. M4 has ceased transmission, last logged on 14 September.

E23 times and frequencies:

Transmissions still only on Monday, Wednesday, and Thursday.
Same message all week.

Week 1: 0957 UTC on 6507 kHz
1157 UTC on 8188 kHz

1257 UTC on 5340 kHz

Week 2: no transmission

Week 3: 0757 UTC on 4832 kHz
0957 UTC on 6200 kHz
1157 UTC on 8188 kHz
1257 UTC on 6507 kHz

Week 4: 0957 UTC on 8188 kHz
1157 UTC on 7250 kHz

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::: ISRAELI INTELLIGENCE [E10]

A number of people reported an unusual amount of message strings sent by E10 during the past weeks. Here are the reports from Erwann Merrien, JMM, Harald Pakusch, John Maky and a couple of anonymous monitors.

Freq.	UTC	date	string
-----	----	-----	-----
4780	1758	03-12	MIWE14A292015
4780	1642	03-12	MIWE8
4780	1617	03-12	MIWS4A41808ZE8
6575	1518	05-12	VLBR
?	2106	14-12	HNC1
10353	0845	17-12	CIOM2 00
5230	0145	18-12	CIO 8
5170	0325	18-12	SYN M2
5170	0145	18-12	SYN NR2ZEAG
5170	0323	18-12	SYN NR2ZEC5
4165	2225	19-12	CI08 //5230 kHz
4165	2216	19-12	CI0NR1Z140040ZA290105 //5230 kHz
5170	2216	19-12	SYN70 //4015 kHz
5170	2305	19-12	SYNNR1ZEA29 //4015 kHz
4360	1936	22-11	CI042127

Sound samples:

<http://www.cvni.net/mp3/2000-12-03-1616z-4780U-E10a.mp3>
<http://www.cvni.net/mp3/2000-12-03-1642z-4780U-E10a.mp3>
<http://www.cvni.net/mp3/2000-12-03-1758z-4780U-E10a.mp3>
<http://www.cvni.net/audio/2000-12-03-1616z-4780U-E10a.wav>
<http://www.cvni.net/audio/2000-12-03-1642z-4780U-E10a.wav>
<http://www.cvni.net/audio/2000-12-03-1758z-4780U-E10a.wav>

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::: E18

E18 has moved to 5155 kHz.

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::: E17

E17 was logged by oldtimer on 8157 kHz at 2112 UTC on 12 Dec. while John Maky reports:

'As if there was any doubt; this confirms it...

At 0300, on 4520, The English Woman (E17) was mixing with a Cuban Morse (M8a) station. E17 was transmitting a "null" message (759 759 759 00000) for the usual three minutes with the M8a transmission definitely on the carrier. Once the E17 "null" broadcast concluded at 0303, the transmitter was switched ON THE AIR to CW! The M8a then continued as normal.'

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::: SOUTH KOREAN STATION

Last month I mentioned Takushi Ochiai's Japanese numbers web site

<http://www3.justnet.ne.jp/~dxer/>

and this month Takushi <jo2oxl@jamsat.or.jp> was so kind to send me a translation of the info on his page. Thanks a million, Takushi!

:: Frequencies

4500, 4600, 5450, 5550, 5715, 6215 kHz

:: Transmission times: 1200-1700 UTC

The station is heard frequently. The interval signals are South Korean pop songs (except for "the Song of General Kim Ilsung", which is a North Korean song). A female announcer reads out numbers.

The mystery is still not 100% solved, there are many open ends, such as its location, its purpose, and of course the contents of the messages. I think that the location of the station is not North Korea but South Korea.

:: Sample message

Interval signal (mostly South Korean pop music)

"No.3825, No.3825, please receive the message.

The number of groups is 41."

5FG's or 4FG's

"I will repeat the message"

5FG's or 4FG's

"That's all. Thank you."

:: Callsigns

There are many different recipient id's, like: No.008, No.1346, Taedong River, Morang-bong, Phoenix, etc.

Recipient id	day	UTC	frequency
-----	-----	----	-----
Morang-bong	14,15	1600	5550
No.007	5,6,21,22	1700	4600?
No.008	not sure	1600	5715
No.461	25	1400	5715
No.1346	16,17	1400	5715
No.2133	11,27	1400	6215
No.2255	7,8,25,26	1600	5450?
No.2345	4,18,19	1400	6215?
No.2626	5,17	1500	6215
No.3250	21	1600	5715
No.3535	10,11,26,27	1500	6215
No.3825	5,6,19,20	1600	5715
No.4545	19	1500	6215
No.4823	1,2	1400	6215 1)
No.5535 or			
No.6535	9,10,19,20	1530	6215 2)
No.7989	1,15	1600	6215

1) Interval signal only

2) Interval signal "Song of General Kim Ilsung"

<<<<>>>>

::: CHERRY RIPE [E03a/E04]

UTC frequencies

----	-----
0000	18864 // 21866
0100	19844 // 21866
1100	18864 // ?
1200	18864 // 23461
1300	18864 // 21866

2200 18864 // 24644
2300 18864 // 21866

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::: THREE NOTE ODDITY [G04]
Hans-Friedrich's monthly ponderings. Thanks HF!

03.12.00 2105Z 4.110 kHz
2135Z 4.210 kHz

Message : 42668 26250 15457 57070 64731
43711 52006 54782 04822 74038
83012 52253 67305 38685 55518
24850 68741 45704 64400 86305
53314 64240 17656 80607 30416
70038 02480 02802
= 28 groups

Remarks : No "9".

History : Summer 2005 2035
Winter 2105 2135 <<<

12/99	3360	3260	2nd transm. -100 kHz.
01/00	3440	3340	.
02/00	3920	3820	.
03/00	4520	4420	.
04/00	5210	5310	2nd transm. +100 kHz
05/00	4830	4930	.
06/00	5220	5320	.
07/00	5360	5460	.
08/00	5320	5420	.
09/00	4760	4860	.
10/00	4580	4680	.
11/00	4270	4370	.
12/00	4110	4210	.

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::: V09
"Guangzhou calling" [V09]. This Chinese number station, was recorded
by Igor. The transmission was heard on 6885//10750 kHz, at 1600 UTC,
on 03-12-2000, AM YL/CC 4FGs.

Message:

nr14 gr16

8456 9312 0229 9242 1457 5588 0634 3256
1537 1212 7998 2926 3895 5496 4522 0850

You can download the message from <http://home.luna.nl/~ary>

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::: G07

A frequent guest in this column reports that G07 keeps to a yearly schedule. Here is a list of frequencies:

Times:

Winter 2110 UTC, 2130 UTC, and 2150 UTC
Summer 2010 UTC, 2030 UTC, and 2050 UTC

Frequencies and id:

January & December	5375	5085	4470 kHz,	742
February & November	5435	5185	4560 kHz,	267
March & October	5810	5240	4530 kHz,	418
April & September	6950	5745	4620 kHz,	359
May & August	????	5880	4640 kHz,	703
June & July	8175	6915	5750 kHz,	531

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::: CZECH STATIONS

After a life cycle of more than 30 years, the Czech military numbers station on 1122 kHz seems to have vanished. It used to be on the air at H+10-12, and H+40-42.

Its sister station, that operated on 2136 kHz, is also silent.

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::: UNID BEACON

John reported the following unid station. Does anyone have any info on this station?

Frequency : 6955 kHz
Date/time : 29 Nov./ 2350 UTC
Mode : USB, Male voice
Message : "This is the 6955 beacon"
Remarks : It runs a 30 sec cycle. 27 sec off, 3 sec announcement with short tone at the end of the transmission. Monitored until 0030, 30/11/00 and the format was constant.

-0-0-0-0-0-0-0-0-0-0-

★ VARIOUS MODES ★

::: XPH

The december XPH skeds were posted by Valeriano Martin, who also informs us that XPH has a regular sked on Tuesday and Friday at 2110, 2130, and 2150 UTC since November.

Tuesday and Friday skeds:

0700	11024	0720	12224	0740	13924
2100	6848	2120	5776	2140	4637
2110	6934	2130	5927	2150	5359

Using Valeriano's XPerta program, I was able to decode the messages. Here is the message that was sent on 12 Dec. at 2100/2120/2140 UTC.

876 876 876 1 876 876 876 1 876 876 876 1
876 876 876 1 876 876 876 1 876 876 876 1
876 876 876 1 876 876 876 1 876 876 876 1

00831 00069 23830 84307 14773 03102 40535 34574 33543 47813
39195 34201 64426 52044 35730 50249 71128 87335 83073 50462
55252 67904 40038 26747 16237 38038 38815 32928 77553 97716
05123 84532 82497 70025 10796 01044 70570 04498 77951 85539
24364 55006 46279 10263 47835 33160 66625 06627 29823 45251
07843 53792 42784 32228 76223 77148 93643 20629 79130 16511
61489 15071 22678 37161 97465 70727 63722 72686 76880 51913
20097

<<<<<>>>>>

::: SWEEPER

The 4 MHz sweeper is possibly a radar signal. 1/3 of 14275-14381 kHz matches the frequency range 4758-4793 kHz, which is exactly the spot where the signal was heard. I copied the following from the ARRL news letter:

'The FCC tentatively has identified a mysterious "tick-tick" intruder signal as the third harmonic of an ocean current-sensing radar near Atlantic City run by Rutgers University. The FCC directed the licensee to eliminate the harmonic but did not order the transmitter shut down. The transmitter manufacturer has since installed a low-pass filter to eliminate the interference. The "tick" showed up from 14.275 to 14.381 MHz.

The typical signal of the experimental Rutgers radar system is 25 kHz wide. While the tick was audible, it did not present significant interference to amateurs.'

<source: ARRL Letter and The American Radio Relay League>

<<<<<>>>>>

::: xxx7 STATIONS

The propagation stations as described in last month's column were also heard in December. DFs suggest that the signal originates in the Moscow area.

<<<<<>>>>>

::: SLOT MACHINE

Last month's other oddity, the Slot Machine, is still going strong. We received many logs from various parts of the world and it is clear that the signal comes from East Asia. I would be grateful if someone in that area could DF the signal.

<<<<<>>>>>

::: S30, THE PIP

Still active on two frequencies; 5448 and 3756 kHz.

<<<<<>>>>>

::: SQUEAKY WHEEL

The unid marker that sounds like a Squeaky Wheel uses two frequencies 5461.5 and 3815 kHz. The signal comes from Russia and is probably a military station just like the Pip.

-O-O-O-O-O-O-O-O-O-O-

* MORSE STATIONS *

::: UNID STATIONS

I copied the following unid station on 3 Dec. at 2120 UTC on 3963 kHz, ends at 2145 UTC.

Its origin is possibly the Ukraine.

AOXD AOXD DE V84W V84W = 179 70 2210 179 = 729 =
AAAAA DDDDD AAKK KBBBD DDYYY 5LGs =

MDLC MDLC DE V84W V84W = 863 52 2310 863 = 729 =
AAAAA DDDDD LLLWW WTTTY YYZZZ 5LGs =

<<<<<>>>>>

A couple of unids from Igor:

7726 kHz, callsign: 303. Heard at 1721 UTC on 17-12-2000. 303 worked
with 302, 304, 308, 5MN. Zero was sent as the letter "o".

3o8 t8
3o8 de 3o3 k
de 3o3 k
t8
3o2 ?
3t4 r de 3o3
3o2 de 3o3 k
3t3
de 3o3 qru ar
t2
3o2 zgn t4 t4
to t8
3o8 de 3o3 k
t8
3o8 de 3o3 k
t8
3o8 de 3o3 ua zba
i
5mn
de 5mn
r de 3o3 qru
ar

<<<<<>>>>>

A unid Japanese station on 5052 kHz, callsign JJV56. Copied at 0951
UTC on 15-12-2000. Info wanted.

de jjv56 qrk 4 k
de jjz37 qrk 4 k
de jjt44 qrk 4 k
de jju22 qrk 4 k
de jjt88 ar qrk 4 ii qsy k
de jjt55 r va
de jjv56 r va
de jjz37 r va
de iit44 r va
de jju22 r va va

<<<<<>>>>>

::: M13

M13 was on 6793 kHz at 2300 UTC on 11 December. 5FGs, short zero.

458 458 458 458 458 458 458 458 458 458 458 458 458 458 458 =
195 20 =
95404 17097 16052 84046 61109 09040 85056 41151 69195 05273
33535 07193 87615 64876 11030 83611 74467 24631 66668 54761 =
458 458 458 458 458 458 458 458 458 458 458 458 458 458 458 =
195 20 =
95404 170971 6052 84046 61109 09040 85056 41151 69195 05273
33535 07193 87615 64876 11030 83611 74467 24631 66668 54761 =
000 (3 long dashes)

M13 will probably repeat this message on 25 December.

Possible times and frequencies for January are 6885 kHz at 2300 UTC on Monday, Tuesday 8 and 9 January, and 22 and 23 January.

<<<<<>>>>>

::: M04 / E23

During the past week a carrier was noted on the three M04 frequencies for 40 minutes, the time taken for a usual E23 transmission. Possibly they are going to use those slots for a voice transmission, or bring back M04. We'll wait and see.

<<<<<>>>>>

::: M63

'A2A' is still very alive and kicking. The usual callup sessions at 0600 UTC can be heard on 4316//5058 UTC, while the out stations reply on 4169 kHz

<<<<<>>>>>

::: CHINESE STATIONS

Regular contributor Igor checks in with a log of an unidentified Chinese station, heard on 6967 kHz at 0122 UTC on 05-12-2000. CW 4FGs, cut numbers (au34567dnt).

... qxm ar = dx q1/9q
nr202 ck51 69 1205 0920 =
6092 1082 8295 4972 6387 8290 1268 7231 7561 5807 4135 9301 7541
3854 2691 4312 1689 8602 3785 2416 8306 1875 8639 0529 6375 5760
2479 0897 2410 8496 1873 4236 1475 2931 4891 9635 9402 2985 7369
0478 8475 7148 5043 6309 5268 2097 6472 9470 4925 2093 8759 ar

nr203 ck101 cls23 1205 0920 =
4974 7838 7849 7986 5090 2068 3471 2190 4259 7182 3292 9041 5013
1487 4778 7842 6707 6512 ***** 8301 1298 0745 1220 8613
7613 2923 6946 3131 9198 5062 7329 6582 0378 4357 3553 0439 0653
2056 6404 9315 0336 8319 7952 8492 1290 9194 6973 0685 5079 2397
2098 2370 4525 8326 0262 7121 8381 0471 8302 2495 4378 5389 6047
9074 3441 4858 2974 7685 0151 1729 3135 1758 8650 6941 5998 0390
2753 2015 4708 4372 4664 8086 5985 5761 1615 4346 2867 5410 4249
9367 9007 9417 5592 5682 9376 4636 5859 0636 8276 ar

<<<<<>>>>>

Another one from Igor:

7800 kHz, BX33: Chinese net, 0058 UTC, 17-12-2000, CW.
Stations heard: BX33, BX48, BX58, BX72, BX76

vv bx33 de bx72 cl kk
vv bx33 de bx76 cl kk
vv bx33 de bx58 k vvvv
bx33 de bx48 cl k vv
vvv cq de bx33 k k
bx58 de bx33 qsa 33 ? k
rr qsa 4 kk
r qsa 3 qsa 3 znn va va
vvv bx33 de bx72 cl kk
r bx72 de bx33 qsa 33 ? k
r r r r qsa 3 qsa 3
r znn va va
rr ok va qsv vv vvv

<<<<<>>>>>

Yet another Chinese station was heard on 10673 kHz at 0330 UTC on
17-12-2000. Callsign BXL107.

r de r de r de r de
de bxl107 qsa 2 nil sk gb

<<<<<>>>>>

::: M76
M76 is back on the air again on 3819 kHz at 0500 UTC and 1750 UTC. A
few days after it came back it developed a chirp, which is still there.
It makes it easier to find.

<<<<<>>>>>

::: M51

Our Oldtimer found M51 on 5243.1 kHz, at 1213 UTC on 8 Dec. Although it is not reported as often as before, the station is still pretty active.

BT NR 59 D 08 13:35:34 2000 BT JBYGS RVBQP SNWFZ ZWLGX

-0-0-0-0-0-0-0-0-0-0-

★ INTELLIGENCE NEWS ★

::: EDMOND POPE

A Russian court sentenced U.S. businessman Edmond Pope to 20 years in jail. Pope is the first Westerner convicted of spying in Russia since the Cold War. He was accused of stealing the design of a new kind of torpedo and would serve his time in a high security penal colony. Pope suffers from bone cancer and would probably die in prison. Former naval intelligence officer, Edmond Pope (54) denied he was a spy and said in court ``The only decision that you should take is to release me to my family and to let me go home.'' After a telephone call of president Clinton, mr Putin has promised to pardon Pope and set him free.

::: MI5

MI5 will possibly use the Tetra radio system in the near future. Tetra is a digital trunked radio system which allows users to make both mobile phone and walkie-talkie calls from their handsets for combined voice and data communications.

The agency is to use the public safety radio communications service (PSRCS), known as Airwave, which is managed by BT Quadrant. It will sit on the accreditation panel for Airwave's security.

The communications electronics security group (CESG) will supervise the technical evaluation of the security of the Airwave network when it goes live. CESG is part of government communications headquarters (GCHQ), the UK signals intelligence agency.

<source: VNU Business Publishing Ltd>

::: PUTIN VISITS LOURDES

Russia's President Vladimir Putin has visited Cuba this month. Putin is apparently trying to renew the ties with the old Soviet allies. He met Iraqi Deputy Prime Minister Tareq Aziz earlier this month, visited North Korea, and has contacts with Libyan leader Gaddafi. In Cuba he had to visit Russia's SIGINT center in Lourdes, of course.

According to Russian journalists who were present, Mr Putin praised the work of the Lourdes personnel. "I am glad to see how you live here," he told them. "The results of your labour are important, not only to the military command but also to the political management of Russia." <Times of London>

Russia's "Radio-Electronic Station/Cuba" near the abandoned Cuban village of Lourdes is the largest and most productive spy station the Russians ever built, a base that specializes in "telephone espionage." It is the last and most valuable jewel in their electronic crown, the Russian version of "Echelon," a worldwide spy network that includes bases inside Russia and overseas ó a network that is reportedly called "Dozor." Lourdes is operated by Russia's GRU, its military intelligence arm, and the Federal Agency for Government Communications (FAPSI), an electronic spy agency that evolved out of the old KGB in the years after the collapse of the Soviet Union. <NBC News>

::: SWISS ANTENNAS FOR ECHELON?

According to Dimanche, Swisscom, a Swiss telecom provider, has sold part of its strategic equipment to an US company. The company is said to have ties with the NSA.

Dimanche indicated that the parabolic aerials of Swisscom installed in Loeche (Valais), and those of seven other stations in Geneva, Basle and Zurich, are part of a deal between the Swiss operator and the US company Verestar, which belongs to the American Tower Corporation (Boston) group. Verestar is specialized in telecom and wireless networks. It has a contract with the US Navy.

Swisscom was formerly owned by the state and is now partly privately owned. A group of Swiss senators and the Federal Department of Defense were not informed of the sale of the aerials, although the sale could have effects on the country's security. The senators were "surprised and irritated".

The American and British observers consulted by the authors of the investigation confirm that Verestar is a kind of front of the NSA for the acquisition of satellite reception bases - it has a ten of them around the world, and roughly 160 stations of smaller importance.

Dimanche points out that the Swiss Confederation has developed its own listening system, code name 'Satos 3', which plans to deploy parabolic aerials to listen to communications outside of its borders. Some of the aerials will be installed in Loeche, close to the Verestar antennas. One of the consulted observers suspects that Satos 3 could be one of the new elements of Echelon.

<source: Swiss magazine 'Dimanche'. Translated by JMM>

-0-0-0-0-0-0-0-0-0-0-

* LOGS SECTION *

2626.0	E10	in progress USB 03-12-2000 Sun 2019 (GG)
2626.0	E10	FTJ 54 WYMZD USB 03-12-2000 Sun 2300 (GG)
2743.0	E10	in progress USB 03-12-2000 Sun 2019 (GG)
3090.0	E10	MIW2 USB 03-12-2000 Sun 2115 (GG)
3090.0	E10	MIW2 USB 03-12-2000 Sun 2215 (GG)
3090.0	E10	MIW2 USB 03-12-2000 Sun 2315 (GG)
3090.0	E10	MIW2 USB 04-12-2000 Mon 2215 (GG)
3090.0	E10	MIW2 USB 06-12-2000 Wed 2215 (GG)
3090.0	E10	MIW2 USB 12-12-2000 Tue 2215 (GG)
3150.0	E10	PCD 115 VURQU USB 03-12-2000 Sun 2100 (GG)
3195	MX	Russian mil. Izhevsk. channelmarker R CW 11-12-2000 Mon 2234 (AB)
3270.0	E10	SYN2 USB 03-12-2000 Sun 2045 (GG)
3270.0	E10	SYN2 USB 03-12-2000 Sun 2245 (GG)
3270.0	E10	SYN2 USB 04-12-2000 Mon 2245 (GG)
3292.0	V02a	in progress AM 19-12-2000 Tue 0200 (JM4)
3334.9	MX	... L (USB) CW 03-12-2000 Sun 2256 (GG)
3335	MX	Russian navy St. Petersburg. Channelmarker L CW 09-12-2000 Sat 2103 (EW2)
3335	MX	Russian navy St Petersburg. CW 12-12-2000 Tue 2054 (AB)
3361	M21	Russian Air Defense. BT99?2327?9????? BT20586507100909 CW 12-12-2000 Tue 2027 (AB)
3398	U4NP	Unid. HRT6 HRT6 HRT6 de U4NP U4NP K CW 12-12-2000 Tue 2254 (AB)
3415	E10	Israeli Intel. ART gr 86 //5435 kHz AM 02-12-2000 Sat 2030 (AB)
3415.0	E10	ART 12 VMPVN USB 03-12-2000 Sun 1600 (GG)
3415.0	E10	ART 86 CPWRA USB 03-12-2000 Sun 2030 (GG)
3415.0	E10	ART2 USB 03-12-2000 Sun 2230 (GG)
3415.0	E10	in progress USB 14-12-2000 Thu 2352 (GG)
3417.0	E10	in progress USB 03-12-2000 Sun 2207 (GG)
3417.0	E10	ART 32 FBFUQ USB 04-12-2000 Mon 2200 (GG)
3417.0	E10	ART 97 QVNHV USB 06-12-2000 Wed 2200 (GG)
3417.0	E10	in progress USB 11-12-2000 Mon 0040 (GG)
3417.0	E10	ART 97 QVNHV USB 12-12-2000 Tue 2200 (GG)
3640.0	E10	VLB2 USB 03-12-2000 Sun 2045 (GG)
3640.0	E10	VLB2 USB 03-12-2000 Sun 2245 (GG)
3640.0	E10	VLB2 USB 04-12-2000 Mon 2245 (GG)
3658	MX	Russian navy Khiva. channelmarker R CW 11-12-2000 Mon 2231 (AB)
3757	S30	Pip CW 02-12-2000 Sat 2219 (AB)
3757	S30	Russian mil. Rostov-Volvograd area. Pip CW 11-12-2000 Mon 2245 (AB)

3815 Squeaky Wheel. Marker CW 02-12-2000 Sat 2218 (AB)
 3815 Squeaky Wheel. Marker CW 11-12-2000 Mon 2243 (AB)
 3840.0 E10 YHF2 USB 03-12-2000 Sun 1700 (GG)
 3840.0 E10 YHF2 USB 03-12-2000 Sun 2300 (GG)
 3840.0 E10 YHF 20 VAFWX USB 04-12-2000 Mon 2200 (GG)
 3840.0 E10 YHF ?? VAFWX USB 06-12-2000 Wed 2200 (GG)
 3893 M83? hro3 de f5wb QTC 221743t35 = 467= 11111 then 5FG short
 0 ends with "=" CW 02-12-2000 Sat 1622 (EW2)
 3925.0 M08a ID 00421 58521 19893 CW 19-12-2000 Tue 1000 (MS)
 3926.0 M08a ID 39453 14943 70513 (RPT OF 0300Z SKED ON 4027M) CW
 19-12-2000 Tue 0400 (MS)
 3926.0 M08a ID ----- 87691 30622 CW 20-12-2000 Wed 1000 (MS)
 4013 M21 Russian Air defense. BT99?2313?8????? CW 12-12-2000 Tue
 2013 (AB)
 4015.0 E10 SYN2 USB 03-12-2000 Sun 1645 (GG)
 4015.0 E10 SYN2 USB 03-12-2000 Sun 2045 (GG)
 4015.0 E10 SYN2 USB 03-12-2000 Sun 2245 (GG)
 4015.0 E10 SYN2 USB 04-12-2000 Mon 2245 (GG)
 4016.0 M08a ID ----- 19892 38502 CW 18-12-2000 Mon 1000 (MS)
 4027.0 M08a ID 39453 14943 70513 CW 19-12-2000 Tue 0300 (MS)
 4028.0 V02a in progress AM 08-12-2000 Fri 0100 (JM4)
 4030.0 M10 57x5F for id 249 dk 50 and 30x5F for id 071 dk 74 CW
 06-12-2000 Wed 2100 (ANEUR)
 4110 G06? in progress. GG/YL Possibly G06 AM 10-12-2000 Sun 2114
 (PILE)
 4110.0 G04 S1/2 Poor signals, TTY QRM AM 07-12-2000 Thu 2105 (PB)
 4110.0 G04 YL with 5FG, message in progress, and ending "Ende
 Ende" USB 10-12-2000 Sun 2114 (FvG)
 4114.0 E10a HNC1 went off air a few minutes after USB 14-12-2000
 Thu 2106 (JMM)
 4165.0 E10 CI02 USB 03-12-2000 Sun 1645 (GG)
 4165.0 E10 CI02 USB 03-12-2000 Sun 2045 (GG)
 4165.0 E10 CI02 USB 03-12-2000 Sun 2245 (GG)
 4165.0 E10 CI02 USB 04-12-2000 Mon 2245 (GG)
 4165.0 E10 //5230 CI02 USB 07-12-2000 Thu 0245 (JM4)
 4165.0 E10 CI02 USB 11-12-2000 Mon 0045 (GG)
 4169 M63 Y2A + all other usual callsigns QSLing to A2A CW
 07-12-2000 Thu 0620 (JD)
 4173.0 M08a ID 00422 87691 30622 (RPT OF 1000Z SKED ON 3926M) CW
 20-12-2000 Wed 1100 (MS)
 4180 M03 287/00 12-11-2000 Sun 1630 (HFD)
 4180 M03 287/00 14-11-2000 Tue 1630 (HFD)
 4210.0 G04 "52668" S9 Some shipping QRM from IAR & OST AM
 07-12-2000 Thu 2135 (PB)
 4233 Slot machine 05-12-2000 Thu (TY)
 4270 G04 36364 45567 18gr 02-11-2000 Thu 2105 (HFD)
 4270.0 E10 PCD2 USB 03-12-2000 Sun 1600 (GG)
 4270.0 E10 PCD2 USB 03-12-2000 Sun 1700 (GG)

4270.0 E10 PCD 115 VURQU USB 03-12-2000 Sun 2100 (GG)
 4270.0 E10 in progress USB 03-12-2000 Sun 2207 (GG)
 4270.0 E10 PCD 2 msgs: 33 TAWCC/65 SSMCR USB 03-12-2000 Sun 2300 (GG)
 4270.0 E10 in progress USB 06-12-2000 Wed 2200 (GG)
 4270.0 E10 PCD 54 ?OPPD USB 12-12-2000 Tue 2200 (GG)
 4291 Slot Machine 16-12-2000 Sat 2132 (EW2)
 4316 M63 A2A. QRA de A2A nw WFI followed by RTTY CW 07-12-2000 Thu 0600 (JD)
 4325.0 MX .-. R (USB) CW 03-12-2000 Sun 2245 (GG)
 4328.0 M08a ID 17643 19892 38502 (RPT OF 1000Z SKED ON 4016M) CW 18-12-2000 Mon 1100 (MS)
 4360 E10 Israeli Intel. CI042127 AM 22-11-2000 Wed 1936 (HP)
 4360 E10 Isreali Intel. VLB2 AM 11-12-2000 Mon 2247 (AB)
 4360 E10 Israeli Intel. VLB2 AM 13-12-2000 Wed 1945 (BW)
 4360.0 E10 VLB2 USB 03-12-2000 Sun 1545 (GG)
 4360.0 E10 VLB2 USB 03-12-2000 Sun 1645 (GG)
 4360.0 E10 VLB2 USB 03-12-2000 Sun 2245 (GG)
 4360.0 E10 VLB2 USB 04-12-2000 Mon 2245 (GG)
 4360.0 E10 //6370 VLB2 USB 06-12-2000 Wed 0245 (JM4)
 4360.0 E10 //6370 VLB2 continuously AM 07-12-2000 Thu 0115 (JM4)
 4360.0 E10 //6370 VLB2 USB 19-12-2000 Tue 0345 (JM4)
 4370 G04 36364 45567 18 gr 05-11-2000 Sun 2135 (HFD)
 4380 G04 36364 45567 18 gr 02-11-2000 Thu 2135 (HFD)
 4460 M29 45 26 33 1900 = 814.2 11-11-2000 Sat 2000 (HFD)
 4461 E10 Israeli Intel. AM 22-11-2000 Wed 2019 (HP)
 4461 E10 Israeli Intel. FTJ AM 26-11-2000 Sun 2030 (HP)
 4461.0 E10 FTJ 42 HSK?F USB 03-12-2000 Sun 1600 (GG)
 4461.0 E10 YHF2 USB 03-12-2000 Sun 1700 (GG)
 4461.0 E10 in progress USB 03-12-2000 Sun 2019 (GG)
 4461.0 E10 FTJ 51 OJPSR USB 03-12-2000 Sun 2030 (GG)
 4461.0 E10 in progress USB 03-12-2000 Sun 2207 (GG)
 4461.0 E10 FTJ 54 WYMZD USB 03-12-2000 Sun 2300 (GG)
 4461.0 E10 FTJ 65 LMOCG USB 04-12-2000 Mon 2200 (GG)
 4461.0 E10 FTJ 57 LMOC? USB 06-12-2000 Wed 2200 (GG)
 4461.0 E10 FTJ 39 FIYKW USB 12-12-2000 Tue 2200 (GG)
 4461.0 E10 FTJ USB 14-12-2000 Thu 0300 (JM4)
 4478.0 M08a ID 00421 58521 19893 (RPT OF 1000Z SKED ON 3925M) CW 19-12-2000 Tue 1100 (MS)
 4478.0 M08a ID 57451 63511 88701 CW 19-12-2000 Tue 1200 (MS)
 4478.0 M08a ID ----- 87692 CW 21-12-2000 Thu 1100 (MS)
 4490 M01 197-414/34=... 14033 14-11-2000 Tue 2000 (HFD)
 4507.0 V02a in prog. AM 03-12-2000 Sun 0432 (BM)
 4507.5 V02 weak (already in progress) AM 21-12-2000 Thu 0318 (RG)
 4517.0 E17 (IP) 693 693 52 52 00000 - YL/EE USB 19-12-2000 Tue 0300 (MS)
 4540 M29 45 26 33 1900 = 814.2 11-11-2000 Sat 1800 (HFD)

4558	MX	Russian mil. Izhevsk. channelmarker R CW 11-12-2000 Mon 2238 (AB)
4560.0	E10	YHF2 USB 03-12-2000 Sun 2300 (GG)
4560.0	E10	//7918 YHF (31) LAGTB USB 07-12-2000 Thu 0230 (JM4)
4625	S28	Russian Mil. Moscow area. Buzzer AM 11-12-2000 Mon 2246 (AB)
4625	S28	Buzzer AM 16-12-2000 Sat 2131 (EW2)
4625.0	XB	The Buzzer busy in buzzing AM 03-12-2000 Sun 1609 (GG)
4635.0	E05	//5812 rptg 204 Count 135 541/07 AM 06-12-2000 Wed 0200 (JM4)
4635.0	E05	//5812 rptg 204 Count 135 541/07 AM 13-12-2000 Wed 0200 (JM4)
4635.0	E05	//5812 rptg 204 Count 135 541/07 AM 16-12-2000 Sat 0200 (JM4)
4636.0	E05	In prog; count 135 AM 23-12-2000 Sat 0218 (BM)
4637	XPH	Polytone station. 876 1 + 5FGs AM 12-12-2000 Tue 2140
4637.0	XPH	weak AM 08-12-2000 Fri 2140 (VM)
4780	M29	94 22 12 2200 = 21246 12-11-2000 Sun 2100 (HFD)
4780.0	E10	VLB2 USB 03-12-2000 Sun 2045 (GG)
4780.0	E10	MIW2 USB 03-12-2000 Sun 2115 (GG)
4780.0	E10	MIW2 USB 03-12-2000 Sun 2215 (GG)
4780.0	E10	MIW2 USB 03-12-2000 Sun 2315 (GG)
4780.0	E10	MIW2 USB 04-12-2000 Mon 2215 (GG)
4780.0	E10	MIW2 USB 06-12-2000 Wed 2215 (GG)
4780.0	E10	MIW2 USB 07-12-2000 Thu 0115 (JM4)
4780.0	E10	MIW2 USB 07-12-2000 Thu 0215 (JM4)
4780.0	E10	MIW2 USB 10-12-2000 Sun 1615 (GG)
4780.0	E10	MIW2 USB 10-12-2000 Sun 1815 (GG)
4780.0	E10	MIW2 USB 12-12-2000 Tue 2215 (GG)
4880	M29	94 22 12 2200 = 21246 12-11-2000 Sun 2130 (HFD)
4880.0	E10	ULX 43 DADHG USB 03-12-2000 Sun 1600 (GG)
4880.0	E10	in progress USB 03-12-2000 Sun 1633 (GG)
4880.0	E10	ULX2 USB 03-12-2000 Sun 1700 (GG)
4880.0	E10	in progress USB 03-12-2000 Sun 2019 (GG)
4880.0	E10	ULX 2 msgs: 89 QFTLV/36 LVFZW USB 03-12-2000 Sun 2030 (GG)
4880.0	E10	ULX2 USB 03-12-2000 Sun 2230 (GG)
4880.0	E10	ULX 98 NERDC USB 03-12-2000 Sun 2300 (GG)
4880.0	E10	in progress USB 07-12-2000 Thu 0200 (JM4)
4880.0	E10	ULX2 USB 12-12-2000 Tue 2200 (GG)
4881.0	E10	weak signal USB 01-12-2000 Fri 1800 (GG)
4881.0	E10	in progress USB 06-12-2000 Wed 0245 (JM4)
4881.0	E10	in progress USB 07-12-2000 Thu 0245 (JM4)
4881.0	E10	in progress USB 10-12-2000 Sun 1815 (GG)
5058	M63	A2A. //4316 kHz CW 07-12-2000 Thu 0600 (JD)
5079	M14	409 (R4) 618 618 29 29 = = 5FGs = = 618 618 618 29 29 00000 CW 02-12-2000 Sat 2100 (AB)
5091	E10	Israeli Intel. AM 22-11-2000 Wed 1940 (HP)

5091.0 E10 very faint USB 03-12-2000 Sun 1500 (GG)
5091.0 E10 JSR2 USB 03-12-2000 Sun 1600 (GG)
5091.0 E10 in progress USB 03-12-2000 Sun 1633 (GG)
5091.0 E10 JSR 15 BLJSN USB 03-12-2000 Sun 1700 (GG)
5091.0 E10 JSR 91 DFZWZ USB 03-12-2000 Sun 2030 (GG)
5091.0 E10 in progress (44 YHMSR) USB 03-12-2000 Sun 2207 (GG)
5091.0 E10 JSR 69 CABWR USB 03-12-2000 Sun 2230 (GG)
5091.0 E10 JSR 44 YHMSR USB 04-12-2000 Mon 2200 (GG)
5091.0 E10 JSR ?4 YHMSR USB 06-12-2000 Wed 2200 (GG)
5091.0 E10 swamped in QRM USB 12-12-2000 Tue 2200 (GG)
5134.0 M08a ID 44961 17152 15982 CW 17-12-2000 Sun 1200 (MS)
5135.0 V02a late start AM 16-12-2000 Sat 0100 (JM4)
5135.0 V02a in progress - wrong frequency? AM 16-12-2000 Sat 0200
5135.0 V02a In prog AM 23-12-2000 Sat 0231 (BM)
5140.0 M23 id "206", no messages CW 07-12-2000 Thu 1900 (ANEUR)
5153.9 MX Russian navy Arkhangelsk. cluster beacon S CW
17-12-2000 Sun 0030 (AB)
5155 E18 EE/YL. 307 number 140 group 088 + 5FGs LSB 14-12-2000
Thu 2200 (AB)
5170.0 E10 KPA2 USB 03-12-2000 Sun 1615 (GG)
5170.0 E10 KPA2 USB 03-12-2000 Sun 2115 (GG)
5170.0 E10 KPA2 USB 03-12-2000 Sun 2215 (GG)
5170.0 E10 KPA2 USB 03-12-2000 Sun 2315 (GG)
5170.0 E10 KPA2 USB 04-12-2000 Mon 2215 (GG)
5170.0 E10 KPA2 USB 06-12-2000 Wed 2215 (GG)
5170.0 E10 KPA2 USB 10-12-2000 Sun 1815 (GG)
5170.0 E10 KPA2 USB 12-12-2000 Tue 2215 (GG)
5170.0 E10 return to normal SYN2 - up continuously USB 19-12-2000
Tue 0330 (JM4)
5170.0 E10a SYN-NR2ZEC5 continuously for hours USB 19-12-2000 Tue
0145 (JM4)
5170.0 E10a momentary change to SYN-M2 USB 19-12-2000 Tue 0325
(JM4)
5184 G07 267/000 13-11-2000 Mon 2130 (HFD)
5230.0 E10 CI02 USB 03-12-2000 Sun 1545 (GG)
5230.0 E10 CI02 USB 03-12-2000 Sun 1645 (GG)
5230.0 E10 CI02 USB 03-12-2000 Sun 2045 (GG)
5230.0 E10 CI02 USB 03-12-2000 Sun 2245 (GG)
5230.0 E10 CI02 USB 04-12-2000 Mon 2245 (GG)
5230.0 E10 CI02 USB 06-12-2000 Wed 0245 (JM4)
5230.0 E10 //4165 CI02 USB 07-12-2000 Thu 0245 (JM4)
5230.0 E10 CI02 USB 11-12-2000 Mon 0045 (GG)
5230.0 E10 return to normal CI02 USB 19-12-2000 Tue 0245 (JM4)
5230.0 E10 CI02 USB 19-12-2000 Tue 0345 (JM4)
5230.0 E10a CI0-8 continuously for hours USB 19-12-2000 Tue 0145
5240.0 E05 Paired w/ 5815 kHz (already in progress) AM 21-12-2000
Thu 0315 (RG)
5243 M51 French Intel. BT NR 59 D 08 13:35:34 2000 BT JBYGS

RVBQP SNWFZ ZWLGX CW 08-12-2000 Fri 1213 (OT)

5285.0 M51 NR 45 CW 01-12-2000 Fri 0751 (VM)

5309.0 M51 NR 84 // 5377.5 CW 05-12-2000 Tue 1904 (VM)

5339.0 E10 SYN2 USB 03-12-2000 Sun 1545 (GG)

5339.0 E10 SYN2 USB 03-12-2000 Sun 1645 (GG)

5339.0 E10 SYN2 USB 03-12-2000 Sun 2045 (GG)

5339.0 E10 SYN2 USB 03-12-2000 Sun 2245 (GG)

5339.0 E10 SYN2 USB 04-12-2000 Mon 2245 (GG)

5339.0 E10 SYN2 USB 11-12-2000 Mon 0045 (GG)

5359.0 XPH 993x3 1 00958 00175 AM 01-12-2000 Fri 2150 (VM)

5371.0 E05 TCS, 123x3/2f for id "260" USB 09-12-2000 Sat 1900

5376 2NX2 Unid. 6DNG 6DNG 6DNG de 2NX2 2NX2 K CW 09-12-2000 Sat 2109 (EW2)

5376 2NX2 Unid. 0WZM 0WZM 0WZM de 2NX2 2NX2 K CW 09-12-2000 Sat 2109 (EW2)

5376 2NX2 Unid. 2Q4C 2Q4C 2Q4C de 2NX2 2NX2 K CW 09-12-2000 Sat 2109 (EW2)

5377.5 M51 NR 84 // 5309 CW 05-12-2000 Tue 1904 (VM)

5408.8 M51 French Intel. NR 20 N 30 CW 30-11-2000 Thu 1920

5416.0 V02a in prog; fast uno; A _____ 35541 _____; obliterated by interference 03:23 AM 23-12-2000 Sat 0302 (BM)

5417.0 V02a A _____ 66151 36191; in prog; fast uno AM 22-12-2000 Fri 2002 (BM)

5420.0 E17 in progress AM 06-12-2000 Wed 0226 (JM4)

5420.0 E17 rptg 759 759 759 00000 - mixing with M8a AM 07-12-2000 Thu 0300 (JM4)

5420.0 M08a mixing on E17 until 0303 switched MCW 07-12-2000 Thu 0300 (JM4)

5422.0 E03 11245 USB 01-12-2000 Fri 1800 (GG)

5422.0 E03 11245 USB 03-12-2000 Sun 2200 (GG)

5422.0 E03 LP Cyprus, id "11245" USB 09-12-2000 Sat 1900 (ANEUR)

5422.0 MX SLHFB Ustinov, RUS CW 09-12-2000 Sat 1902 (ANEUR)

5434 E10 Israeli Intel. ART gr 86 //3415 kHz AM 02-12-2000 Sat 2030 (AB)

5435.0 E10 weak signal USB 01-12-2000 Fri 1800 (GG)

5435.0 E10 very faint USB 03-12-2000 Sun 1500 (GG)

5435.0 E10 ART 12 VMPVN USB 03-12-2000 Sun 1600 (GG)

5435.0 E10 in progress USB 03-12-2000 Sun 1633 (GG)

5435.0 E10 ART USB 03-12-2000 Sun 1700 (GG)

5435.0 E10 ART 61 VBLFK USB 03-12-2000 Sun 2100 (GG)

5435.0 E10 ART2 USB 03-12-2000 Sun 2230 (GG)

5435.0 E10 in progress USB 14-12-2000 Thu 2352 (GG)

5435.0 E10 //6986 ART (28) ETERI USB 19-12-2000 Tue 0400 (JM4)

5435.4 E10 ART 86 CPWRA USB 03-12-2000 Sun 2030 (GG)

5437.0 E10 in progress USB 03-12-2000 Sun 2207 (GG)

5437.0 E10 ART 32 FBFUQ USB 04-12-2000 Mon 2200 (GG)

5437.0 E10 ART 97 QVNHV USB 06-12-2000 Wed 2200 (GG)

5437.0 E10 in progress USB 11-12-2000 Mon 0040 (GG)

5437.0 E10 ART 97 QVNHV USB 12-12-2000 Tue 2200 (GG)
5448 S30 Russian mil. Rostov-Volvograd area. Pip CW 03-12-2000
Sun 1319 (AB)
5465 MX Russian mi. Izhevsk. Channelmarker R CW 09-12-2000 Sat
2051 (EW2)
5465 MX Russian mil. Izhevsk. channelmarker R CW 12-12-2000 Tue
2055 (AB)
5465 MX Russian mil. Izhevsk. channelmarker R CW 17-12-2000 Sun
0035 (AB)
5465.0 MX .-. R (USB) CW 03-12-2000 Sun 1609 (GG)
5465.0 MX .-. R (USB) CW 03-12-2000 Sun 2234 (GG)
5465.0 MX R .-. CW 12-12-2000 Tue 2215 (GG)
5776 XPH Polytone station. 876 1 + 5FGs AM 12-12-2000 Tue 2120
5776.0 XPH 876x3 000 AM 01-12-2000 Fri 2120 (VM)
5776.0 XPH 876x3 000 AM 05-12-2000 Tue 2120 (VM)
5776.0 XPH weak AM 08-12-2000 Fri 2120 (VM)
5812.0 E05 //4635 rptg 204 Count 135 541/07 AM 06-12-2000 Wed 0200
(JM4)
5812.0 E05 //4635 rptg 204 Count 135 541/07 AM 13-12-2000 Wed 0200
(JM4)
5812.0 E05 //4635 rptg 204 Count 135 541/07 AM 16-12-2000 Sat 0200
(JM4)
5812.0 E05 400 count 112 AM 22-12-2000 Fri 0300 (BM)
5815.0 E05 Paired w/ 5240 kHz (already in progress) AM 21-12-2000
Thu 0315 (RG)
5820 E10 Israeli Intel. AM 22-11-2000 Wed 1953 (HP)
5820.0 E10 YHF 28 WDAUQ USB 03-12-2000 Sun 1500 (GG)
5820.0 E10 YHF 6 ITYGF USB 03-12-2000 Sun 1530 (GG)
5820.0 E10 YHF2 USB 03-12-2000 Sun 1700 (GG)
5820.0 E10 YHF 20 VAFWX USB 04-12-2000 Mon 2200 (GG)
5820.0 E10 YHF ?? VAFWX USB 06-12-2000 Wed 2200 (GG)
5820.0 E10 YHF 20 VAFWX USB 12-12-2000 Tue 2200 (GG)
5927.0 XPH In progress AM 01-12-2000 Fri 2134 (VM)
6270 E10 Israeli Intel. AM 26-11-2000 Sun 2050 (HP)
6270.0 E10 ULX 28 ENLKG USB 03-12-2000 Sun 1500 (GG)
6270.0 E10 ULX2 USB 03-12-2000 Sun 1530 (GG)
6270.0 E10 ULX 43 DADHG USB 03-12-2000 Sun 1600 (GG)
6270.0 E10 in progress USB 03-12-2000 Sun 1633 (GG)
6270.0 E10 ULX2 USB 03-12-2000 Sun 2230 (GG)
6270.0 E10 ULX 98 NERDC USB 03-12-2000 Sun 2300 (GG)
6270.0 E10 ULX2 USB 04-12-2000 Mon 0630 (GG)
6270.0 E10 //7760 in progress USB 08-12-2000 Fri 0100 (JM4)
6270.0 E10 ULX2 USB 12-12-2000 Tue 2200 (GG)
6270.0 E10 //7760 ULX (77) AIVGZ AM 13-12-2000 Wed 0100 (JM4)
6270.0 E10 //7760 ULX (77) AIVGZ USB 14-12-2000 Thu 0100 (JM4)
6270.0 E10 //7760 ULX (77) AIVGZ AM 16-12-2000 Sat 0100 (JM4)
6270.0 E10 //7760 ULX (37) OYVYE USB 18-12-2000 Mon 0100 (JM4)
6270.0 E10 //7760 ULX (37) OYVYE AM 19-12-2000 Tue 0100 (JM4)

6370 E10 Israeli Intel. MIW2 AM 22-11-2000 Wed 1944 (HP)
6370.0 E10 VLB2 continuous, up to at least 1840z USB 01-12-2000
Fri 1615 (GG)
6370.0 E10 VLB2 USB 03-12-2000 Sun 1545 (GG)
6370.0 E10 VLB2 USB 03-12-2000 Sun 1645 (GG)
6370.0 E10 VLB2 USB 03-12-2000 Sun 2245 (GG)
6370.0 E10 VLB2 USB 04-12-2000 Mon 2245 (GG)
6370.0 E10 //4360 VLB2 USB 06-12-2000 Wed 0245 (JM4)
6370.0 E10 //4360 VLB2 continuously AM 07-12-2000 Thu 0115 (JM4)
6370.0 E10 VLB2 USB 11-12-2000 Mon 0045 (GG)
6370.0 E10 VLB2 USB 19-12-2000 Tue 0145 (JM4)
6370.0 E10 VLB2 USB 19-12-2000 Tue 0245 (JM4)
6370.0 E10 //4360 VLB2 USB 19-12-2000 Tue 0345 (JM4)
6379 M22 4XZ. Israeli Navy tel Aviv. VVV marker CW 12-12-2000
Tue 2048 (AB)
6417 Slot Machine 16-12-2000 Sat 2132 (EW2)
6417.0 Slot Machine USB 09-12-2000 Sat 1500 (JM4)
6417.0 Slot Machine USB 18-12-2000 Mon 1500 (JM4)
6445 Slot Machine 16-12-2000 Sat 2132 (EW2)
6445.0 Slot Machine USB 09-12-2000 Sat 1500 (JM4)
6445.0 Slot Machine USB 18-12-2000 Mon 1500 (JM4)
6498.0 E10 in progress USB 03-12-2000 Sun 2207 (GG)
6498.0 E10 PCD USB 04-12-2000 Mon 2200 (GG)
6498.0 E10 in progress USB 06-12-2000 Wed 2200 (GG)
6498.0 E10 PCD 54 ?OPPD USB 12-12-2000 Tue 2200 (GG)
6509 L4FC Unid. IBEH IBEH IBEH de L4FC L4FC K CW 09-12-2000 Sat
2116 (EW2)
6575 E10 Israeli Intel. HNC8 AM 05-12-2000 Thu 1345 (TY)
6575 E10 Israeli Intel. VLBR AM 05-12-2000 Tue 1518 (HP)
6575.0 E10 HNCJ AM 01-12-2000 Fri 2130 (VM)
6767.0 M08a (IN PROGRESS) CW 17-12-2000 Sun 1200 (MS)
6767.0 M08a ID 50753 29782 59493 (RPT OF 1200Z SKED ON 6825M) CW
21-12-2000 Thu 1300 (MS)
6785.0 M08a ID ----- 29781 59492 (RPT OF 1200Z SKED ON 6854M) CW
20-12-2000 Wed 1300 (MS)
6793 M13 458 = 195 20 = 5FGs = 000 Message sent twice CW
11-12-2000 Mon 2300 (AB)
6796.0 M08a ID 89683 89892 41573 (RPT OF 1200Z SKED ON 6982M) CW
18-12-2000 Mon 1300 (MS)
6797.0 M08a ID ----- 89891 41572 CW 17-12-2000 Sun 1200 (MS)
6797.0 M08a ID 44962 17153 15983 CW 18-12-2000 Mon 1200 (MS)
6797.0 M08a ID ----- 01242 48602 CW 20-12-2000 Wed 1200 (MS)
6817.0 XM Backwards Music Station USB 16-12-2000 Sat 0200 (JM4)
6825.0 M08a ID 50753 29782 59493 CW 21-12-2000 Thu 1200 (MS)
6840.0 E10 //11565 EZI (29) JZKCN USB 19-12-2000 Tue 0230 (JM4)
6842.0 E10 in progress (101 JKLNO) USB 03-12-2000 Sun 2207 (GG)
6842.0 E10 EZI USB 04-12-2000 Mon 2200 (GG)
6842.0 E10 EZI 57 XLVDA USB 06-12-2000 Wed 2200 (GG)

6848 XPH Polytone station. 876 1 + 5FGs AM 12-12-2000 Tue 2100
 6848.0 XPH weak AM 08-12-2000 Fri 2100 (VM)
 6854.0 M08a ID ----- 29781 59492 CW 20-12-2000 Wed 1200 (MS)
 6864.5 M21 Russian Air Defense. BT99?1901?9????? BT161917377__68
 CW 01-12-2000 Fri 1530 (EW2)
 6864.5 M21 Russian Air Defense. BT99?2010?9????? CW 09-12-2000 Sat
 1811 (EW2)
 6885 V09 Guangzhou calling: Chinese number station, YL/CC 4FGs.
 sending text: nr14 gr16 8456 9312 0229 9242 1457 5588
 0634 3256 1537 1212 7998 2926 3895 5496 4522 0850 AM
 03-12-2000 Sun 1600 (IB)
 6900 E03 Lincolnshire Poacher in progress USB 02-12-2000 Sat
 2016 (AB)
 6912.0 E10 SYN2 USB 03-12-2000 Sun 1545 (GG)
 6932.0 M08a ID 57751 89893 59491 (RPT OF 1200Z SKED ON 7889M) CW
 19-12-2000 Tue 1300 (MS)
 6932.0 M08a ID 21222 01243 48603 CW 21-12-2000 Thu 1200 (MS)
 6933.0 M08a ID ----- 01241 48601 CW 19-12-2000 Tue 1200 (MS)
 6934.0 XPH 993x3 1 00958 00175 AM 01-12-2000 Fri 2110 (VM)
 6934.0 XPH 993x3 000 AM 05-12-2000 Tue 2110 (VM)
 6934.0 XPH 993x3 000 AM 08-12-2000 Fri 2110 (VM)
 6945 M10 555 555 555 275 275 275 52 450 52 450 42 450 32 CW
 07-12-2000 Thu 1720 (EW2)
 6959.0 E03 in progress USB 03-12-2000 Sun 2120 (GG)
 6959.0 E03 in progress USB 04-12-2000 Mon 2020 (GG)
 6959.0 E03 //9251//11545 rptg 67449 USB 04-12-2000 Mon 2100 (JM4)
 6959.0 E03 22937 USB 04-12-2000 Mon 2200 (GG)
 6959.0 E03 //10426//11545 rptg 22932 USB 04-12-2000 Mon 2200 (JM4)
 6959.0 E03 in progress USB 10-12-2000 Sun 1935 (GG)
 6959.0 E03 13257 USB 12-12-2000 Tue 2200 (GG)
 6959.0 E03 12027 USB 14-12-2000 Thu 2200 (GG)
 6960.0 E05 Call 227 USB 04-12-2000 Mon 2200 (GG)
 6960.0 E05 //9090 rptg 227 Count 175 470/09 USB 04-12-2000 Mon
 2200 (JM4)
 6960.0 E05 //9090 rptg 227 Count 175 470/09 USB 06-12-2000 Wed
 2200 (JM4)
 6960.0 E05 Call 227 Count 175 470/09 ... USB 06-12-2000 Wed 2200
 6960.0 E05 //9090 rptg 227 Count 175 470/09 AM 20-12-2000 Wed 2200
 (JM4)
 6978.5 M13 926 926 926 = 195 22 = 5FG ends with 000 CW 15-12-2000
 Fri 1800 (EW2)
 6982.0 M08a ID 89681 89891 41572 (RPT OF 1200Z SKED ON 6797M) CW
 17-12-2000 Sun 1300 (MS)
 6982.0 M08a ID 89683 89892 41573 CW 18-12-2000 Mon 1200 (MS)
 6986.0 E10 ART 21 TVGJE USB 03-12-2000 Sun 1500 (GG)
 6986.0 E10 ART 61 VBLFK USB 03-12-2000 Sun 2100 (GG)
 6986.0 E10 ART2 USB 04-12-2000 Mon 0630 (GG)
 6986.0 E10 //5435 ART (28) ETERI USB 19-12-2000 Tue 0400 (JM4)

7038.4 MX ... S (USB) CW 03-12-2000 Sun 2249 (GG)
 7038.9 MX Russian navy Arkhangelsk. Marker S CW 09-12-2000 Sat 2047 (EW2)
 7038.9 MX Russian navy Arkhangelsk. cluster beacon S CW 17-12-2000 Sun 0030 (AB)
 7039.9 MX Russian navy Arkhangelsk. cluster beacon S CW 11-12-2000 Mon 2240 (AB)
 7320.0 M08a ID 44961 17152 15982 (RPT OF 1200Z SKED ON 5134M) CW 17-12-2000 Sun 1300 (MS)
 7320.0 M08a ID 44962 17153 15983 (RPT OF 1200Z SKED ON 6797M) CW 18-12-2000 Mon 1300 (MS)
 7320.0 M08a ID 21221 01242 48602 (RPT OF 1200Z SKED ON 6797M) CW 20-12-2000 Wed 1300 (MS)
 7337.0 E03 67599 USB 06-12-2000 Wed 2200 (GG)
 7337.0 E03 in progress USB 10-12-2000 Sun 1814 (GG)
 7358.0 E10 very faint USB 03-12-2000 Sun 1500 (GG)
 7358.0 E10 FTJ2 (QRN by Voice of Russia FF 7360) USB 03-12-2000 Sun 1700 (GG)
 7358.0 E10 FTJ2 USB 04-12-2000 Mon 0630 (GG)
 7540.0 E10 JSR2 USB 03-12-2000 Sun 1600 (GG)
 7540.0 E10 JSR 15 BLJSN USB 03-12-2000 Sun 1700 (GG)
 7540.0 E10 JSR 91 DFZWZ USB 03-12-2000 Sun 2030 (GG)
 7579.0 M08a ID ----- 93902 10871 (RPT OF 1300Z SKED ON 6797M) CW 19-12-2000 Tue 1400 (MS)
 7581.0 M08a ID ----- 69292 00383 CW 21-12-2000 Thu 0800 (MS)
 7605.0 E10 KPA2 USB 01-12-2000 Fri 1615 (GG)
 7605.0 E10 KPA2 USB 03-12-2000 Sun 1515 (GG)
 7605.0 E10 KPA2 USB 03-12-2000 Sun 1615 (GG)
 7605.0 E10 KPA2 USB 03-12-2000 Sun 2115 (GG)
 7605.0 E10 KPA2 USB 03-12-2000 Sun 2215 (GG)
 7605.0 E10 KPA2 USB 03-12-2000 Sun 2315 (GG)
 7605.0 E10 KPA2 USB 04-12-2000 Mon 2215 (GG)
 7605.0 E10 KPA2 USB 04-12-2000 Mon 2215 (JM4)
 7605.0 E10 KPA2 USB 06-12-2000 Wed 2215 (GG)
 7605.0 E10 KPA2 AM 07-12-2000 Thu 0115 (JM4)
 7605.0 E10 KPA2 AM 08-12-2000 Fri 0115 (JM4)
 7605.0 E10 KPA2 USB 10-12-2000 Sun 1615 (GG)
 7605.0 E10 KPA2 USB 10-12-2000 Sun 1815 (GG)
 7605.0 E10 KPA2 USB 12-12-2000 Tue 2215 (GG)
 7605.0 E10 KPA2 AM 13-12-2000 Wed 0115 (JM4)
 7605.0 E10 KPA2 AM 13-12-2000 Wed 0215 (JM4)
 7605.0 E10 KPA2 AM 14-12-2000 Thu 0115 (JM4)
 7605.0 E10 KPA2 AM 14-12-2000 Thu 0215 (JM4)
 7605.0 E10 KPA2 AM 16-12-2000 Sat 0115 (JM4)
 7605.0 E10 KPA2 AM 16-12-2000 Sat 1915 (AEA)
 7605.0 E10 KPA2 AM 19-12-2000 Tue 0115 (JM4)
 7605.0 E10 KPA2 AM 19-12-2000 Tue 0315 (JM4)
 7620 E05 Counting Station in progress AM 28-11-2000 Tue 0322

7620.0 E05 //9205 rptg 039 Count 107 321/83 AM 19-12-2000 Tue 0300
(JM4)
7760.0 E10 ULX2 USB 03-12-2000 Sun 1530 (GG)
7760.0 E10 //6270 in progress USB 08-12-2000 Fri 0100 (JM4)
7760.0 E10 //6270 ULX (77) AIVGZ AM 13-12-2000 Wed 0100 (JM4)
7760.0 E10 //6270 ULX (77) AIVGZ USB 14-12-2000 Thu 0100 (JM4)
7760.0 E10 //6270 ULX (77) AIVGZ AM 16-12-2000 Sat 0100 (JM4)
7760.0 E10 //6270 ULX (37) OYVYE USB 18-12-2000 Mon 0100 (JM4)
7760.0 E10 //6270 ULX (37) OYVYE AM 19-12-2000 Tue 0100 (JM4)
7811.0 E10 VLB2 //9270 AM 16-12-2000 Sat 1245 (AEA)
7887.0 V02a A 13113 36612 91632 AM 03-12-2000 Sun 0100 (BM)
7889.0 M08a ID ----- 89893 59491 CW 19-12-2000 Tue 1200 (MS)
7890.0 M08a ID 21222 01243 48603 (RPT OF 1200Z SKED ON 6932M) CW
21-12-2000 Thu 1300 (MS)
7918 E10 Israeli Intel. AM 05-12-2000 Tue 1607 (HP)
7918.0 E10 in progress USB 01-12-2000 Fri 1620 (GG)
7918.0 E10 YHF 28 WDAUQ USB 03-12-2000 Sun 1500 (GG)
7918.0 E10 YHF 89 KNJXN USB 03-12-2000 Sun 1600 (GG)
7918.0 E10 YHF 74 ZSYMO USB 04-12-2000 Mon 0630 (GG)
7918.0 E10 in progress AM 06-12-2000 Wed 0200 (JM4)
7918.0 E10 YHF USB 06-12-2000 Wed 0230 (JM4)
7918.0 E10 YHF (67) ZLRND AM 07-12-2000 Thu 0130 (JM4)
7918.0 E10 //4560 YHF (31) LAGTB USB 07-12-2000 Thu 0230 (JM4)
7918.0 E10 in progress USB 13-12-2000 Wed 0200 (JM4)
7918.0 E10 YHF (8?) XKOUX USB 14-12-2000 Thu 0200 (JM4)
7918.0 E10 YHF (80) XKOUX AM 16-12-2000 Sat 0200 (JM4)
7918.0 E10 in progress USB 16-12-2000 Sat 1604 (GG)
7918.0 E10 YHF USB 19-12-2000 Tue 0200 (JM4)
7945.0 E06 rptg 898 898 898 00000 w/new voice AM 14-12-2000 Thu
0230 (JM4)
8009.0 M08a ID 81421 80923 97733 CW 20-12-2000 Wed 2300 (MS)
8009.0 M08a ID ----- 81422 28383 CW 21-12-2000 Thu 2200 (MS)
8033 E11 183 Oblique 00 USB 05-12-2000 Tue 1303 (HP)
8040.0 V02 ID 728 04 (R5)04 65 AND INTO 5F - YL/SS AM 21-12-2000
Thu 1000 (MS)
8085.0 E05 in progress USB 18-12-2000 Mon 1712 (GG)
8085.0 E05 //10643 rptg 661 Count 36 230/19 AM 19-12-2000 Tue 0400
(JM4)
8096.0 M08a (IN PROGRESS) CW 18-12-2000 Mon 0500 (MS)
8125.0 E05 TCS YL/EE in prog AM 16-12-2000 Sat 1915 (AEA)
8135.0 M08a ID 71111 38391 28381 CW 19-12-2000 Tue 2300 (MS)
8135.0 M08a ID 23032 81422 28383 (RPT OF 2200Z SKED ON 8009M) CW
21-12-2000 Thu 2300 (MS)
8157 E17? 989 5FGs EE/YL. Possibly E17 AM 12-12-2000 Tue 2112
8160.0 V06 ID 836 AM 01-12-2000 Fri 2100 (VM)
8186.0 M08a ID ----- 00381 CW 19-12-2000 Tue 0700 (MS)
8190 S17C 99036 05-11-2000 Sun 1250 (HFD)
8190 S17C 11031 11-11-2000 Sat 1250 (HFD)

8190	S17C	12935	12-11-2000	Sun	1250	(HFD)
8190	S17C	99034	18-11-2000	Sat	1250	(HFD)
8190	S17C	12036	19-11-2000	Sun	1250	(HFD)
8190	S17C	99032	25-11-2000	Sat	1250	(HFD)
8300	V13	New Star BC AM 21-11-2000 Tue 2211 (HP)				
8300.0	V13	in progress USB 03-12-2000 Sun 1410 (AF)				
8300.0	V13	USB 03-12-2000 Sun 1430 (AF)				
8300.0	V13	USB 03-12-2000 Sun 1600 (AF)				
8300.0	V13	YL/CC 4FGx2 w/flute interval signal AM 18-12-2000 Mon 1500 (JM4)				
8464.0	E03	11245	USB	01-12-2000	Fri	1800 (GG)
8464.0	E03	51992	USB	03-12-2000	Sun	1600 (GG)
8464.0	E03	11245	USB	03-12-2000	Sun	2200 (GG)
8465.0	E10	SYN2 AM 16-12-2000 Sat 1245 (AEA)				
8465.0	E10	SYN2 AM 19-12-2000 Tue 1353 (AEA)				
8465.0	E10a	SYN88 AM 20-12-2000 Wed 1352 (AEA)				
8532.0	V02	A 238/02 02/82 18893 AM 14-12-2000 Thu 0200 (JM4)				
8532.0	V02a	A238/02 02/55 50538 AM 07-12-2000 Thu 0200 (JM4)				
8588		Slot Machine 16-12-2000 Sat 2132 (EW2)				
8588.0		Slot Machine USB 07-12-2000 Thu 1600 (JM4)				
8588.0		Slot Machine USB 09-12-2000 Sat 1500 (JM4)				
8588.0		Slot Machine USB 18-12-2000 Mon 1500 (JM4)				
8703.5		Slot Machine 02-12-2000 Sat 2013 (AB)				
8703.5		Slot Machine USB 07-12-2000 Thu 1600 (JM4)				
8703.5		Slot Machine USB 09-12-2000 Sat 1500 (JM4)				
8703.5		Slot Machine USB 18-12-2000 Mon 1500 (JM4)				
8805	E10	Israeli Intel. in progress AM 29-11-2000 Wed 1752 (EB)				
8805	E10	Israeli Intel. in progress AM 13-12-2000 Wed 1950 (BW)				
8805.0	E10	PCD2 USB 03-12-2000 Sun 1530 (GG)				
8805.0	E10	PCD2 USB 03-12-2000 Sun 1700 (GG)				
9024.0	V02	A 616/02 02/51 36393 AM 13-12-2000 Wed 0200 (JM4)				
9024.0	V02a	A 616/02 02/51 AM 06-12-2000 Wed 0200 (JM4)				
9070.0	E05	Call 626 924/61 ... USB 18-12-2000 Mon 1800 (GG)				
9090.0	E05	//6960 rptg 227 Count 175 470/09 USB 04-12-2000 Mon 2200 (JM4)				
9090.0	E05	Call 227 USB 04-12-2000 Mon 2200 (GG)				
9090.0	E05	//6960 rptg 227 Count 175 470/09 USB 06-12-2000 Wed 2200 (JM4)				
9090.0	E05	rptg 227 Count ? weak USB 11-12-2000 Mon 2200 (JM4)				
9090.0	E05	//6960 rptg 227 Count 175 470/09 AM 20-12-2000 Wed 2200 (JM4)				
9130.0	E10	EZI 15 L?Y?K USB 03-12-2000 Sun 2030 (GG)				
9130.0	E10	EZI 65 ????? (bad audio) USB 03-12-2000 Sun 2100 (GG)				
9130.0	E10	in progress USB 03-12-2000 Sun 2207 (GG)				
9130.0	E10	EZI 26 YGULJ USB 04-12-2000 Mon 0630 (GG)				
9130.0	E10	EZI USB 04-12-2000 Mon 2200 (GG)				
9130.0	E10	//11565 in progress AM 06-12-2000 Wed 0200 (JM4)				
9130.0	E10	EZI 57 XLVDA USB 06-12-2000 Wed 2200 (GG)				

9130.0 E10 //11565 EZI2 AM 13-12-2000 Wed 0100 (JM4)
 9130.0 E10 //11565 EZI2 USB 14-12-2000 Thu 0100 (JM4)
 9130.0 E10 //11565 EZI2 USB 18-12-2000 Mon 0100 (JM4)
 9130.0 E10 //11565 EZI2 AM 19-12-2000 Tue 0100 (JM4)
 9130.0 E10 //11565 EZI (53) FGBXA USB 19-12-2000 Tue 0300 (JM4)
 9137 M42 FAPSI. Msg on link 00063 RTTY 01-12-2000 Fri 1730 (JD)
 9153.0 M08a ID ----- 45701 ----- CW 18-12-2000 Mon 1000 (MS)
 9153.0 M08a ID 69882 45703 39731 CW 20-12-2000 Wed 1000 (MS)
 9205.0 E05 //7620 rptg 039 Count 107 321/83 AM 19-12-2000 Tue 0300 (JM4)
 9219.0 E05 Call 491 USB 04-12-2000 Mon 2200 (GG)
 9219.0 E05 rptg 491 Count 213 698/03 USB 04-12-2000 Mon 2200 (JM4)
 9222 E06 ip 27-11-2000 Mon 2023 (HFD)
 9239.0 M08a ID ----- 15742 CW 19-12-2000 Tue 1000 (MS)
 9239.0 M08a ID ----- 67113 CW 21-12-2000 Thu 1000 (MS)
 9251 E03 Lincolnshire Poacher. Id 10753 USB 26-11-2000 Sun 2100
 9251.0 E03 in progress USB 03-12-2000 Sun 2120 (GG)
 9251.0 E03 in progress USB 04-12-2000 Mon 2020 (GG)
 9251.0 E03 //6959//11545 rptg 67449 USB 04-12-2000 Mon 2100 (JM4)
 9251.0 E03 13257 USB 12-12-2000 Tue 2200 (GG)
 9251.0 E03 12027 USB 14-12-2000 Thu 2200 (GG)
 9251.0 E10 //12603 rptg 67599 USB 06-12-2000 Wed 2200 (JM4)
 9270.0 E10 VLB2 AM 02-12-2000 Sat 0635 (AEA)
 9270.0 E10 VLB2 //7811 AM 16-12-2000 Sat 1245 (AEA)
 9323.0 M08a ID 97983 46243 67112 CW 19-12-2000 Tue 1000 (MS)
 9323.0 M08a ID ----- 64451 CW 21-12-2000 Thu 1000 (MS)
 9332.0 M08a ID ----- 07781 89541 CW 20-12-2000 Wed 1000 (MS)
 9382.0 E10 YHF weak USB 18-12-2000 Mon 0130 (JM4)
 9382.0 E10 YHF weak USB 19-12-2000 Tue 0130 (JM4)
 9385 S17C In progress AM 05-12-2000 Tue 1257 (HP)
 10125 E10 Israeli Intel. MIW2 AM 24-11-2000 Fri 2000 (HP)
 10126.0 M08a ID 46683 45701 07232 (RPT OF 1000Z SKED ON 9153M) CW 18-12-2000 Mon 1100 (MS)
 10126.0 M08a ID 98083 01271 10281 (RPT OF 0800Z SKED ON 11432M) CW 19-12-2000 Tue 0900 (MS)
 10126.0 M08a ID 69882 45703 39731 (RPT OF 1000Z SKED ON 9153M) CW 20-12-2000 Wed 1100 (MS)
 10126.0 M08a ID 44662 01273 10283 (RPT OF 0800Z SKED ON 11432M) CW 21-12-2000 Thu 0900 (MS)
 10126.5 MX Unid channelmarker E0 CW 17-12-2000 Sun 0800 (AB)
 10225.0 XW "Whales" on a new frequency USB 04-12-2000 Mon 2030
 10248 M16 8BY. French Intel. VVV 8BY 673/762/661 CW 08-12-2000 Fri 1250 (EW2)
 10345.0 M08a ID 97983 46243 67112 (RPT OF 1000Z SKED ON 9323M) CW 19-12-2000 Tue 1100 (MS)
 10346.0 M08a ID ----- 02341 64451 (RPT OF 1000Z SKED ON 9323M) CW 21-12-2000 Thu 1100 (MS)
 10352.0 E10a CI0NR1ZA14C9C10A16 AM 16-12-2000 Sat 1215 (AEA)

10352.0 E10a CI08 AM 18-12-2000 Mon 0647 (AEA)
 10353 E10 Israeli Intel. CI0M2 00 AM 17-12-2000 Sun 0845 (EW2)
 10357.0 V07 in progress (ends 000 000) AM 19-12-2000 Tue 0734 (AEA)
 10423.0 E05 weak/QRN USB 06-12-2000 Wed 2200 (JM4)
 10423.0 E05 //12197 rptg 023 Count 87 383/72 AM 17-12-2000 Sun 2200 (JM4)
 10423.0 E05 // not heard rptg 023 Count 87 383/72 AM 20-12-2000 Wed 2200 (JM4)
 10426 E03 Lincolnshire Poacher USB 05-12-2000 Tue 1539 (HP)
 10426 E03 Lincolnshire Poacher. Id 10271 USB 09-12-2000 Sat 2003
 10426.0 E03 51992 USB 03-12-2000 Sun 1600 (GG)
 10426.0 E03 //6959//11545 rptg 22932 USB 04-12-2000 Mon 2200 (JM4)
 10426.0 E03 67599 USB 06-12-2000 Wed 2200 (GG)
 10426.0 E03 66021 USB 16-12-2000 Sat 1400 (GG)
 10445.0 V02a (IN PROGRESS - YL/SS) AM 18-12-2000 Mon 0300 (MS)
 10446.0 M08a ID 69881 45702 15742 (RPT OF 1000Z SKED ON 9239M) CW 19-12-2000 Tue 1100 (MS)
 10446.0 M08a ID ----- 45843 67113 (RPT OF 1000Z SKED ON 9239M) CW 21-12-2000 Thu 1100 (MS)
 10446.0 V02a (IN PROGRESS - YL/SS) USB 18-12-2000 Mon 0500 (MS)
 10530 E05 Counting Station. 987 10-count 3/2FGs AM 08-12-2000 Fri 1304 (EW2)
 10643.0 E05 //8085 rptg 661 Count 36 230/19 AM 19-12-2000 Tue 0400 (JM4)
 10648 E10 Israeli Intel. AM 05-12-2000 Tue 1608 (HP)
 10648.0 E10 in progress USB 01-12-2000 Fri 1620 (GG)
 10648.0 E10 YHF 89 KNJXN USB 03-12-2000 Sun 1600 (GG)
 10665.0 V05 //11491 rptg 923 Grupo 181 252/64 AM 07-12-2000 Thu 0300 (JM4)
 10665.0 V05 //11491 rptg 923 Grupo 181 252/64 AM 14-12-2000 Thu 0300 (JM4)
 10714.0 M08a ID 91133 75081 45153 CW 19-12-2000 Tue 0200 (MS)
 10715.0 M08a ID ----- 07781 89541 (RPT OF 1000Z SKED ON 9332M) CW 20-12-2000 Wed 1100 (MS)
 10750 V09 Guangzhou calling: Chinese number station, YL/CC 4FGs. sending text: nr14 gr16 8456 9312 0229 9242 1457 5588 0634 3256 1537 1212 7998 2926 3895 5496 4522 0850 AM 03-12-2000 Sun 1600 (IB)
 10871.9 MX Russian navy Arkhangelsk. Marker S CW 02-12-2000 Sat 1602 (EW2)
 10871.9 MX Russian navy Arkhangelsk. cluster beacon 'S' CW 03-12-2000 Sun 1317 (AB)
 10871.9 MX Russian navy Arkhangelsk. Marker S CW 08-12-2000 Fri 0856 (EW2)
 10871.9 MX Russian navy Arkhangelsk. cluster beacon S CW 17-12-2000 Sun 0854 (AB)
 11024.0 XPH 029x3 000 AM 01-12-2000 Fri 0700 (VM)
 11072.0 E05 weak USB 03-12-2000 Sun 1800 (GG)

11209.0 XW Whales (fast delivery) USB 07-12-2000 Thu 0112 (JM4)
 11432.0 M08a ID ----- 01271 10281 CW 19-12-2000 Tue 0800 (MS)
 11432.0 M08a ID ----- 10283 CW 21-12-2000 Thu 0800 (MS)
 11491.0 V05 //10665 rptg 923 Grupo 181 252/64 AM 07-12-2000 Thu
 0300 (JM4)
 11491.0 V05 //10665 rptg 923 Grupo 181 252/64 AM 14-12-2000 Thu
 0300 (JM4)
 11545.0 E03 67449 USB 01-12-2000 Fri 1600 (GG)
 11545.0 E03 22932 USB 01-12-2000 Fri 1700 (GG)
 11545.0 E03 in progress USB 02-12-2000 Sat 2012 (GG)
 11545.0 E03 95931 USB 03-12-2000 Sun 1500 (GG)
 11545.0 E03 51992 USB 03-12-2000 Sun 1600 (GG)
 11545.0 E03 12027 USB 03-12-2000 Sun 1700 (GG)
 11545.0 E03 in progress USB 04-12-2000 Mon 2020 (GG)
 11545.0 E03 //6959//9251 rptg 67449 USB 04-12-2000 Mon 2100 (JM4)
 11545.0 E03 //6959//10426 rptg 22932 USB 04-12-2000 Mon 2200 (JM4)
 11545.0 E03 //14487//16084 rptg 22932 USB 06-12-2000 Wed 1500 (JM4)
 11545.0 E03 //12603//13375 rptg 67599 USB 08-12-2000 Fri 1500 (JM4)
 11545.0 E03 //13375//16084 rptg 22932 USB 08-12-2000 Fri 1700 (JM4)
 11545.0 E03 //13375//15682 rptg 10271 USB 11-12-2000 Mon 1500 (JM4)
 11545.0 E03 //13375//15682 rptg 10271 USB 12-12-2000 Tue 1600 (JM4)
 11545.0 E03 13257 USB 12-12-2000 Tue 2200 (GG)
 11545.0 E03 66021 USB 16-12-2000 Sat 1400 (GG)
 11545.0 E03 //12603//13375 in progress USB 16-12-2000 Sat 1500
 11545.0 E03 //12603//13375 rptg 99500 USB 16-12-2000 Sat 1600 (JM4)
 11545.0 E03 99500 USB 16-12-2000 Sat 1604 (GG)
 11545.0 E03 //12603//13375 weak USB 16-12-2000 Sat 1700 (JM4)
 11545.0 E03 //13375//15682 rptg 47767 USB 18-12-2000 Mon 1500 (JM4)
 11565.0 E10 EZI2 USB 03-12-2000 Sun 1600 (GG)
 11565.0 E10 in progress USB 03-12-2000 Sun 1633 (GG)
 11565.0 E10 EZI 84 WTRIH USB 03-12-2000 Sun 1700 (GG)
 11565.0 E10 EZI 65 ????? (bad audio) USB 03-12-2000 Sun 2100 (GG)
 11565.0 E10 EZI 26 YGULJ USB 04-12-2000 Mon 0630 (GG)
 11565.0 E10 //9130 in progress AM 06-12-2000 Wed 0200 (JM4)
 11565.0 E10 //9130 EZI2 AM 13-12-2000 Wed 0100 (JM4)
 11565.0 E10 //9130 EZI2 USB 14-12-2000 Thu 0100 (JM4)
 11565.0 E10 EZI2 AM 16-12-2000 Sat 0100 (JM4)
 11565.0 E10 //9130 EZI2 USB 18-12-2000 Mon 0100 (JM4)
 11565.0 E10 //9130 EZI2 AM 19-12-2000 Tue 0100 (JM4)
 11565.0 E10 EZI USB 19-12-2000 Tue 0200 (JM4)
 11565.0 E10 //6840 EZI (29) JZKCN USB 19-12-2000 Tue 0230 (JM4)
 11565.0 E10 //9130 EZI (53) FGBXA USB 19-12-2000 Tue 0300 (JM4)
 11567.0 M08a ID 95611 64431 20331 CW 18-12-2000 Mon 1700 (MS)
 12165.0 V02a (IN PROGRESS - YL/SS) AM 18-12-2000 Mon 0200 (MS)
 12180.0 V02a in progress AM 13-12-2000 Wed 0200 (JM4)
 12197.0 E05 Call 123? (weak) USB 03-12-2000 Sun 2200 (GG)
 12197.0 E05 //10423 rptg 023 Count 87 383/72 AM 17-12-2000 Sun 2200
 (JM4)

12215.0 V02 My first reception ever. Weak but readable with static
AM 21-12-2000 Thu 0200 (AF2)
12215.0 V02a in progress AM 19-12-2000 Tue 0200 (JM4)
12215.0 V02a A _____ 16812 02983; in prog AM 22-12-2000 Fri 0206
12224.0 XPH 029x3 000 AM 01-12-2000 Fri 0720 (VM)
12300.0 V05 ID 825 USB 19-12-2000 Tue 0300 (MS)
12300.0 V05 in prog AM 23-12-2000 Sat 0345 (BM)
12300.5 V05 //14421 rptg 826 Grupo 226 AM 19-12-2000 Tue 0300 (JM4)
12603.0 E03 95931 USB 03-12-2000 Sun 1500 (GG)
12603.0 E03 12027 USB 03-12-2000 Sun 1700 (GG)
12603.0 E03 USB 03-12-2000 Sun 1800 (GG)
12603.0 E03 rptg 22932 USB 07-12-2000 Thu 1600 (JM4)
12603.0 E03 //11545//13375 rptg 67599 USB 08-12-2000 Fri 1500 (JM4)
12603.0 E03 in progress USB 10-12-2000 Sun 1814 (GG)
12603.0 E03 12027 significantly stronger than USB 14-12-2000 Thu
2200 (GG)
12603.0 E03 //11545//13375 in progress USB 16-12-2000 Sat 1500
12603.0 E03 //11545//13375 rptg 99500 USB 16-12-2000 Sat 1600 (JM4)
12603.0 E03 99500 USB 16-12-2000 Sat 1604 (GG)
12603.0 E03 //11545//13375 weak USB 16-12-2000 Sat 1700 (JM4)
12603.0 E10 //9251 rptg 67599 USB 06-12-2000 Wed 2200 (JM4)
13374.0 M08a ID 95611 64431 20331 (RPT OF 1700Z SKED ON 11567M) CW
18-12-2000 Mon 1800 (MS)
13374.5 M08a GMWAA UDNTA WTWDA CW 11-12-2000 Mon 1800 (JM4)
13375.0 E03 67449 USB 01-12-2000 Fri 1600 (GG)
13375.0 E03 22932 USB 01-12-2000 Fri 1700 (GG)
13375.0 E03 95931 USB 03-12-2000 Sun 1500 (GG)
13375.0 E03 12027 USB 03-12-2000 Sun 1700 (GG)
13375.0 E03 weak USB 05-12-2000 Tue 1700 (JM4)
13375.0 E03 //11545//12603 rptg 65799 USB 08-12-2000 Fri 1500 (JM4)
13375.0 E03 //11545//16084 rptg 22932 USB 08-12-2000 Fri 1700 (JM4)
13375.0 E03 //11545//15682 rptg 10271 USB 11-12-2000 Mon 1500 (JM4)
13375.0 E03 //11545//15682 rptg 10271 USB 12-12-2000 Tue 1600 (JM4)
13375.0 E03 //11545//12603 in progress USB 16-12-2000 Sat 1500
13375.0 E03 //11545//12603 rptg 99500 USB 16-12-2000 Sat 1600 (JM4)
13375.0 E03 99500 USB 16-12-2000 Sat 1604 (GG)
13375.0 E03 //11545//12603 weak USB 16-12-2000 Sat 1700 (JM4)
13375.0 E03 //11545//15682 rptg 47767 USB 18-12-2000 Mon 1500 (JM4)
13419.0 M08a ID 95612 64432 20332 CW 20-12-2000 Wed 1800 (MS)
13436.0 V02a into 5FG w/o call-up AM 19-12-2000 Tue 0100 (JM4)
13444.0 E05 rptg 262 Count ? weak USB 11-12-2000 Mon 1800 (JM4)
13444.0 E05 Call 626 924/61 ... USB 18-12-2000 Mon 1800 (GG)
13450.0 E05 USB 03-12-2000 Sun 1700 (AF)
13450.0 E05 Call 822 Count 152 256/77 ... USB 03-12-2000 Sun 1700
13450.0 E05 //14448 rptg 822 Count 152 256/7_ AM 08-12-2000 Fri
1700 (JM4)
13452.0 V05 //15651 rptg 046 Grupo 230 122/74 AM 08-12-2000 Fri
0100 (JM4)

13452.0 V05 //15651 rptg 046 Grupo 230 122/74 AM 13-12-2000 Wed
0100 (JM4)
13452.0 V05 046 grupo 230 in prog @0106 AM 22-12-2000 Fri 0106 (BM)
13533.0 E10 EZI2 USB 03-12-2000 Sun 1600 (GG)
13533.0 E10 in progress USB 03-12-2000 Sun 1633 (GG)
13533.0 E10 EZI 84 WTRIH USB 03-12-2000 Sun 1700 (GG)
13533.0 E10 EZI2 USB 16-12-2000 Sat 1600 (JM4)
13533.0 E10 EZI (10) QSOFZ... AM 19-12-2000 Tue 0530 (AEA)
13555.0 E05 USB 03-12-2000 Sun 1400 (AF)
13750.0 V13 YL/CC 4FGx2 AM 12-12-2000 Tue 1600 (JM4)
13874 E05 Counting Station. 076 10-count, count 69 AM 26-11-2000
Sun 2010 (MADX)
13906 E05 Counting Station AM 22-11-2000 Wed 1229 (HP)
13924.0 XPH 029x3 1 00397 00079 AM 05-12-2000 Tue 0740 (VM)
14421.0 V05 //12300.5 rptg 826 Grupo 226 AM 19-12-2000 Tue 0300
14448.0 E05 Call 822 Count 152 256/77 ... USB 03-12-2000 Sun 1700
14448.0 E05 USB 03-12-2000 Sun 1700 (AF)
14448.0 E05 //13450 rptg 822 Count 152 256/7_ AM 08-12-2000 Fri
1700 (JM4)
14487 E03 Lincolnshire Poacher. Id 12027 USB 08-12-2000 Fri 1403
(EW2)
14487.0 E03 //11545//16084 rptg 22932 USB 06-12-2000 Wed 1500 (JM4)
14487.0 E03 //16475 in progress USB 13-12-2000 Wed 1700 (JM4)
14487.0 E03 22944 USB 16-12-2000 Sat 1300 (GG)
14487.0 E03 66021 USB 16-12-2000 Sat 1400 (GG)
14932 M16 8BY. French Intel. 780/311/043 AR CW 14-11-2000 Tue
1757 (EB)
15651.0 V05 //13452 rptg 046 Grupo 230 122/74 AM 08-12-2000 Fri
0100 (JM4)
15651.0 V05 //14452 rptg 046 Grupo 230 122/74 AM 13-12-2000 Wed
0100 (JM4)
15682.0 E03 //11545//13375 rptg 10271 USB 11-12-2000 Mon 1500 (JM4)
15682.0 E03 //11545//13375 rptg 10271 USB 12-12-2000 Tue 1600 (JM4)
15682.0 E03 22944 USB 16-12-2000 Sat 1300 (GG)
15682.0 E03 //11545//13375 rptg 47767 USB 18-12-2000 Mon 1500 (JM4)
16084 E03 Lincolnshire Poacher. Id 12027 USB 08-12-2000 Fri 1403
(EW2)
16084.0 E03 //11545//14487 rptg 22932 USB 06-12-2000 Wed 1500 (JM4)
16084.0 E03 //11545//13375 rptg 22932 USB 08-12-2000 Fri 1700 (JM4)
16084.0 E03 22944 USB 16-12-2000 Sat 1300 (GG)
16331.9 MX Russian navy Arkhangelsk. Marker S CW 10-12-2000 Sun
0902 (EW2)
16475.0 E03 //14487 in progress USB 13-12-2000 Wed 1700 (JM4)
17410.0 E10 //19715 EZI (93) TRDWL AM 06-12-2000 Wed 1530 (JM4)
17410.0 E10 in progress *EXTRA STRONG* signal USB 16-12-2000 Sat
0914 (GG)
17410.0 E10 //19715//21930 EZI (84) IRYVY AM 16-12-2000 Sat 1530
18644.0 E03a //24644 rptg 18844 USB 06-12-2000 Wed 2200 (JM4)

18864.0 E03a //24644 rptg 77622 USB 04-12-2000 Mon 2200 (JM4)
 18864.0 E03a //21866 rptg 71589 USB 04-12-2000 Mon 2300 (JM4)
 18864.0 E03a "77620"? S3 some tty interference. //23461kHz nil
 required heard. USB 07-12-2000 Thu 1200 (PB)
 18864.0 E03a S1/2 Very poor signals. Part start-up 89. QRM //21866
 nil required heard. USB 07-12-2000 Thu 1300 (PB)
 18864.0 E03a //24644 in progress USB 13-12-2000 Wed 2200 (JM4)
 18864.0 E03a weak USB 14-12-2000 Thu 0000 (JM4)
 18864.0 E03a //24644 weak USB 18-12-2000 Mon 2300 (JM4)
 18864.0 E03a //24644 weak USB 20-12-2000 Wed 2200 (JM4)
 19715.0 E10 EZI 93 TRDWL USB 03-12-2000 Sun 1530 (GG)
 19715.0 E10 //17410 EZI (93) TRDWL AM 06-12-2000 Wed 1530 (JM4)
 19715.0 E10 //17410//21930 EZI (84) IRYVY AM 16-12-2000 Sat 1530
 19715.0 E10 //21930 EZI (84) IR_VY AM 18-12-2000 Mon 1530 (JM4)
 19871.9 MX Russian navy Arkhangelsk. Marker S CW 09-12-2000 Sat
 2049 (EW2)
 19884.0 E03 in prog; barely audible USB 22-12-2000 Fri 0124 (BM)
 19884.0 E03a //21866 rptg 11536 USB 07-12-2000 Thu 0100 (JM4)
 19884.0 E03a //21866 in progress USB 08-12-2000 Fri 0100 (JM4)
 19884.0 E03a //21866 rptg 28372 USB 18-12-2000 Mon 0100 (JM4)
 19884.0 E03a //21866 rptg 83963 USB 19-12-2000 Tue 0100 (JM4)
 20047.9 MX Russian navy Arkhangelsk. Marker S CW 01-12-2000 Fri
 1032 (EW2)
 20047.9 MX Russian navy Arkhangelsk. Marker S CW 10-12-2000 Sun
 0900 (EW2)
 20048.2 MX Russian navy Vladivostok. Marker F CW 01-12-2000 Fri
 1032 (EW2)
 20048.2 MX Russian navy Vladivostok. Marker F CW 10-12-2000 Sun
 0900 (EW2)
 20126.5 MX unid marker 'J' or 'E0' CW 03-12-2000 Sun 1314 (AB)
 20127 MX Russian navy Vladivostok. Marker F CW 02-12-2000 Sat
 1126 (EW2)
 20247.9 MX Russian navy Arkhangelsk. cluster beacon 'S' CW
 03-12-2000 Sun 1316 (AB)
 21866.0 E03 in prog USB 22-12-2000 Fri 0125 (BM)
 21866.0 E03a //18864 rptg 71589 USB 04-12-2000 Mon 2300 (JM4)
 21866.0 E03a //19884 rptg 11536 USB 07-12-2000 Thu 0100 (JM4)
 21866.0 E03a //19884 in progress USB 08-12-2000 Fri 0100 (JM4)
 21866.0 E03a weak USB 13-12-2000 Wed 0100 (JM4)
 21866.0 E03a //19884 rptg 28372 USB 18-12-2000 Mon 0100 (JM4)
 21866.0 E03a //19884 rptg 83963 USB 19-12-2000 Tue 0100 (JM4)
 21930.0 E10 EZI 93 TRDWL USB 03-12-2000 Sun 1530 (GG)
 21930.0 E10 EZI 84 IKYVY USB 16-12-2000 Sat 1530 (GG)
 21930.0 E10 //17410//19715 EZI (84) IRYVY AM 16-12-2000 Sat 1530
 21930.0 E10 //19715 EZI (84) IR_VY AM 18-12-2000 Mon 1530 (JM4)
 22863 M42 FAPSI. Msg on link 00099 RTTY 15-12-2000 Fri 0934 (RH2)
 24644.0 E03a //18864 rptg 77622 USB 04-12-2000 Mon 2200 (JM4)
 24644.0 E03a //18644 rptg 18844 USB 06-12-2000 Wed 2200 (JM4)

24644.0 E03a //18864 in progress USB 13-12-2000 Wed 2200 (JM4)
24644.0 E03a //18864 weak USB 18-12-2000 Mon 2300 (JM4)
24644.0 E03a //18644 weak USB 20-12-2000 Wed 2200 (JM4)

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HP	Harald Pakusch, Germany
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JMM	JMM, Europe
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OT	Oldtimer, NW UK
PB	Paul Beaumont, UK
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RG	Ryan Grabow, NY, USA
RH2	Robert Hall, S.Africa
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VM	Valeriano Martin, Spain

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